# STR-6800SD

*US Model*
*Canadian Model*
*AEP Model*
*UK Model*
*PX Model*

* This set is equipped with DOLBY FM circuit. **'Dolby'** and the double-D symbol are the trade marks of Dolby Laboratory Inc. Noise reduction system manufactured under license from Dolby Laboratory Inc.

## DOLBY FM   FM STEREO/FM-AM RECEIVER

## SPECIFICATIONS

### GENERAL

| | |
|---|---|
| Power Requirements: | 120 V ac, 60 Hz (USA and Canada Model)<br>110, 127, 220 or 240 V ac ~ adjustable, 50/60 Hz (AEP, UK Model)<br>100, 120, 220 or 240 V ac adjustable, 50/60 Hz (PX Model type 1)<br>120 V ac, 50/60 Hz (PX Model type 2) |
| Power Consumption: | 225W (USA Model)<br>460VA (Canada Model)<br>710W (AEP Model)<br>480W (UK Model)<br>250W (PX Model) |
| AC Outlets: | 3 unswitched, total 200W (USA, Canada and PX Model type 2) |
| Dimensions: | Approx.<br>490 (w) x 170 (h) x 415 (d) mm<br>19¼ (w) x 6⁹⁄₁₆ (h) x 16¼ (d) inches<br>Including projecting parts and controls |
| Weight: | Approx.<br>16.5 kg, 36 lb 7 oz (net)<br>Approx.<br>18.8 kg, 41 lb 8 oz (with shipping carton) |

### FM SECTION

| | |
|---|---|
| Tuning Range: | 87.5 MHz – 108 MHz |
| Intermediate Frequency: | 10.7 MHz |
| Sensitivity at 50 dB Quieting: | 3.5 μV (MONO)<br>45 μV (STEREO) |
| Sensitivity at 46 dB Quieting: (40 kHz deviation) | 50 μV (STEREO) (AEP, UK Model) |
| Usable Sensitivity: | IHF 1.7 μV (MONO)<br>1.5 μV, S/N = 26 dB (40 kHz deviation) (AEP, UK Model) |
| S/N Ratio: | 73 dB (MONO)<br>68 dB (STEREO) |
| Harmonic Distortion: | at 100 Hz<br>0.2 % (MONO)<br>0.3 % (STEREO)<br>at 1 kHz<br>0.2 % (MONO)<br>0.3 % (STEREO)<br>at 10 kHz<br>0.2 % (MONO)<br>0.6 % (STEREO) |
| IM Distortion: | 0.2 % (MONO)<br>0.3 % (STEREO) |
| Separation: | 35 dB at 100 Hz<br>40 dB at 1 kHz<br>35 dB at 10 kHz |
| Frequency Response: | 40 Hz – 12.5 kHz $^{+0.2}_{-1.0}$ dB (AEP, UK Model)<br>30 Hz – 15 kHz $^{+0.2}_{-1.5}$ dB (USA, Canada, PX Model) |
| Capture Ratio: | 1.0 dB |
| AM Suppression Ratio: | 54 dB |
| Image Response Ratio: | 75 dB |
| IF Response Ratio: | 100 dB |
| Spurious Response Ratio: | 100 dB |
| RF Intermodulation: | 65 dB |

– Continued on next page –

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SONY®
**SERVICE MANUAL**

**Sub-carrier Product Ratio:** 60 dB

**Muting Threshold:** Approx. 5 µV

**FM DISCRI Output Level:** 250 mV, 2,500 Ω, at 1 kHz,
100 % modulation

## AM SECTION

**Tuning Range:** 530 kHz – 1,605 kHz

**Intermediate Frequency:** 455 kHz (USA, Canada and PX Model)
468 kHz (AEP, UK Model)

**Usable Sensitivity:** 250 µV/m, built-in ferrite rod antenna
100 µV, external antenna
at 1,000 kHz

**S/N Ratio:** 50 dB at 50 mV/m

**Harmonic Distortion:** 0.5 % at 50 mV/m, 400 Hz

**Selectivity:** 35 dB

**Image Response Ratio:** 40 dB at 1,000 kHz

**IF Response Ratio:** 35 dB at 1,000 kHz

## AUDIO AMPLIFIER SECTION

**Continuous RMS Power Output:** (rated output)
Less than 0.1 % THD, both channels driven simultaneously
At 20 – 20,000 Hz
80 + 80 W (8 Ω)
At 1 kHz
85 + 85 W (8 Ω) (AEP, UK Model)
100 + 100 W (4 Ω) (AEP Model)
According to DIN 45500
85 + 85 W (8 Ω)
90 + 90 W (4 Ω) } (AEP Model)

**Dynamic Power Output:** (IHF constant power supply method)
250 W (8 Ω) (AEP, UK Model)
320 W (4 Ω) (AEP Model)

**Power Bandwidth:** 10 – 35,000 Hz, IHF (AEP, UK Model)

**Damping Factor:** 40 at 1 kHz (8 Ω)

**Harmonic Distortion:**
Less than 0.1 % at rated output
Less than 0.05 % at 1 W output } (AEP, UK Model)

**IM Distortion:** (60 Hz : 7 kHz = 4 : 1)
Less than 0.1 % at rated output
Less than 0.05 % at 1 W output

**Residual Noise:** Less than 0.1 µW

**Frequency Response:**

| | |
|---|---|
| PHONO 1, 2 | RIAA equalization curve ±0.5 dB |
| AUX<br>TAPE 1, 2<br>REC/PB (AEP, UK Model)<br>EXT ADPT | 10 – 30,000 Hz $^{+0}_{-2}$ dB |

**Input Sensitivity, Impedance and S/N Ratio:**

| | Sensitivity | Impedance | S/N | Weighting network |
|---|---|---|---|---|
| PHONO 1, 2 | 2.5 mV | 50 kΩ | 72 dB | A |
| AUX<br>TAPE 1, 2<br>REC/PB (AEP, UK Model)<br>EXT ADPT | 250 mV | 100 kΩ | 90 dB | A |

Note: Measured with rated output power into 8 Ω loads (both channels driven simultaneously) at 1 kHz.

**Output Level and Impedance:**

| | Output level | Impedance | Input level |
|---|---|---|---|
| REC OUT 1, 2 | 250 mV | 4.7 kΩ | PHONO 2.5 mV |
| REC/PB (AEP, UK Model) | 40 mV | 82 kΩ | AUX<br>TAPE 1, 2 250 mV<br>REC/PB (input)<br>EXT ADPT |
| EXT ADPT | 250 mV | 4.7 kΩ | |

**HEADPHONES:** Accepts 8 – 10,000 Ω headphones.

**SPEAKER:** 4 – 16 Ω speakers are suitable.
8 Ω or more speakers are suitable. (UK Model)

**Tone Controls:**
BASS ±10 dB at 100 Hz
TREBLE ±10 dB at 10 kHz

**Filters:**
HIGH 6 dB/oct. above 5 kHz
6 dB/oct. above 10 kHz
LOW 6 dB/oct. below 50 Hz
6 dB/oct. below 25 Hz

**Acoustic Compensator:** (att. 30 dB)
LOW +9 dB at 50 Hz
PRESENCE +3 dB at 1 kHz
LOUDNESS +10 dB at 50 Hz
+3 dB at 10 kHz

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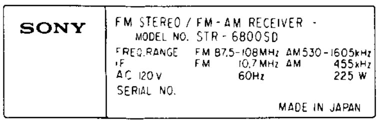
## MODEL IDENTIFICATION

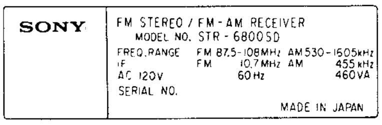
### Specification Labels:

**US model**



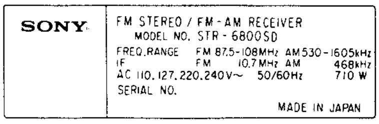
SONY
FM STEREO / FM-AM RECEIVER -
MODEL NO. STR-6800SD
FREQ.RANGE FM 87.5-108MHz AM530-1605kHz
IF FM 10.7MHz AM 455kHz
AC 120V 60Hz 225 W
SERIAL NO.
MADE IN JAPAN

**Canadian model**



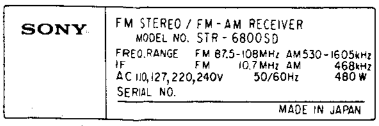
SONY
FM STEREO / FM-AM RECEIVER
MODEL NO. STR-6800SD
FREQ.RANGE FM 87.5-108MHz AM530-1605kHz
IF FM 10.7MHz AM 455kHz
AC 120V 60Hz 460VA
SERIAL NO.
MADE IN JAPAN

**AEP model**



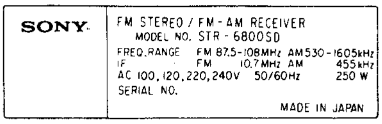
SONY
FM STEREO / FM-AM RECEIVER
MODEL NO. STR-6800SD
FREQ.RANGE FM 87.5-108MHz AM530-1605kHz
IF FM 10.7MHz AM 468kHz
AC 110. 127. 220. 240V~ 50/60Hz 710 W
SERIAL NO.
MADE IN JAPAN

**UK model**



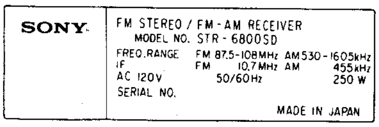
SONY
FM STEREO / FM-AM RECEIVER
MODEL NO. STR-6800SD
FREQ.RANGE FM 87.5-108MHz AM530-1605kHz
IF FM 10.7MHz AM 468kHz
AC 110,127,220,240V 50/60Hz 480 W
SERIAL NO.
MADE IN JAPAN

**PX model type 1**



SONY
FM STEREO / FM-AM RECEIVER
MODEL NO. STR-6800SD
FREQ.RANGE FM 87.5-108MHz AM530-1605kHz
IF FM 10.7MHz AM 455kHz
AC 100, 120, 220, 240V 50/60Hz 250 W
SERIAL NO.
MADE IN JAPAN

**PX model type 2**

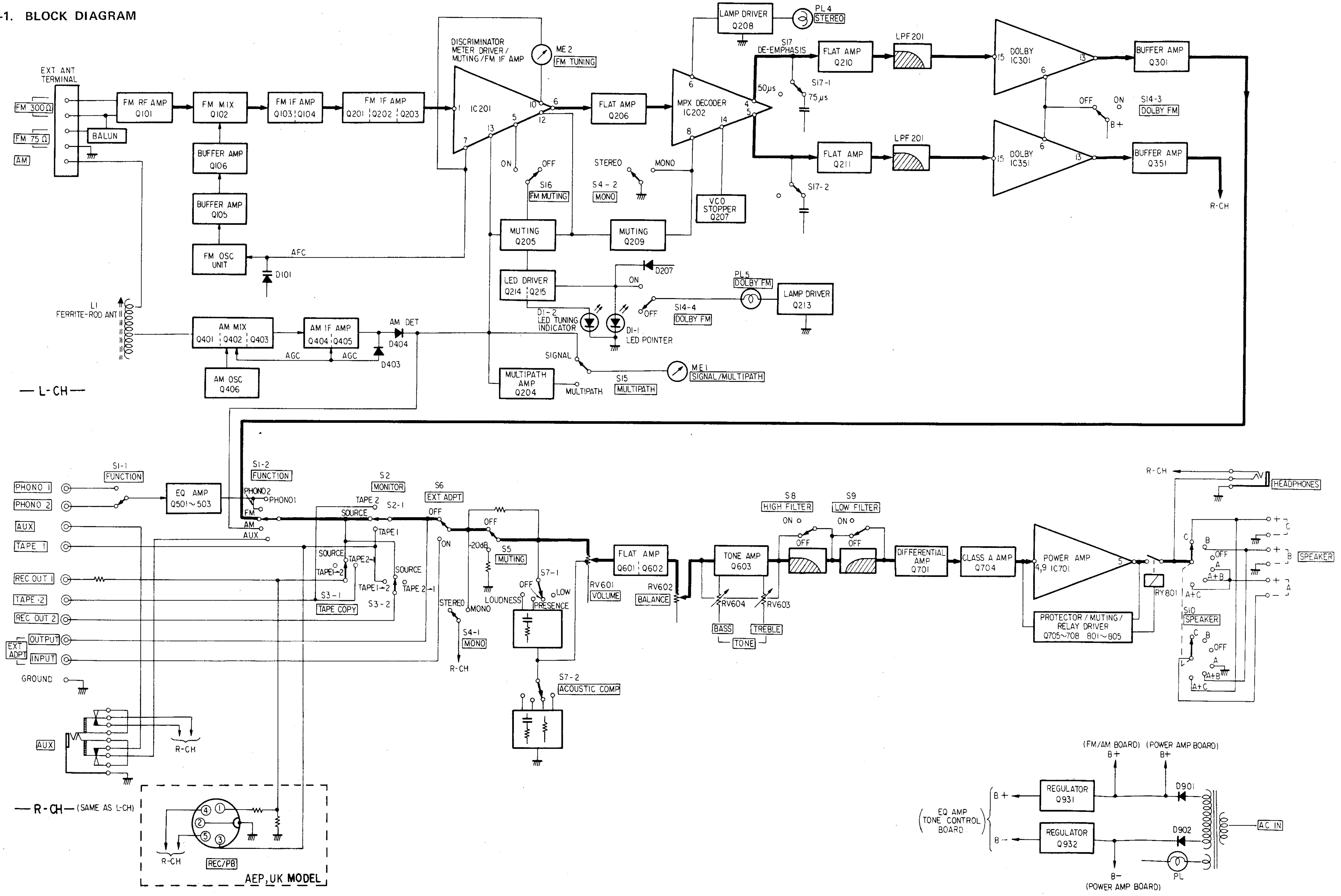


SONY
FM STEREO / FM-AM RECEIVER
MODEL NO. STR-6800SD
FREQ.RANGE FM 87.5-108MHz AM530-1605kHz
IF FM 10.7MHz AM 455kHz
AC 120V 50/60Hz 250 W
SERIAL NO.
MADE IN JAPAN

## SECTION 1

## OUTLINE

### 1-1. BLOCK DIAGRAM


EXT ANT TERMINAL
FM 300Ω
FM 75Ω
AM
BALUN
FM RF AMP Q101
FM MIX Q102
FM IF AMP Q103 Q104
FM IF AMP Q201 Q202 Q203
BUFFER AMP Q106
BUFFER AMP Q105
FM OSC UNIT
AFC
D101
DISCRIMINATOR METER DRIVER / MUTING/FM IF AMP
IC201
ME 2
FM TUNING
FLAT AMP Q206
MPX DECODER IC202
LAMP DRIVER Q208
PL 4
STEREO
S17
DE-EMPHASIS
50μs
75μs
S17-1
S17-2
FLAT AMP Q210
FLAT AMP Q211
LPF 201
DOLBY IC301
DOLBY IC351
BUFFER AMP Q301
BUFFER AMP Q351
OFF
ON
S14-3
DOLBY FM
B+
R-CH
ON
OFF
S16
FM MUTING
STEREO
MONO
S4-2
MONO
VCO STOPPER Q207
MUTING Q205
MUTING Q209
LED DRIVER Q214 Q215
D207
ON
PL5
DOLBY FM
LAMP DRIVER Q213
S14-4
DOLBY FM
OFF
D1-2
LED TUNING INDICATOR
D1-1
LED POINTER
L1
FERRITE-ROD ANT
AM MIX Q401 Q402 Q403
AM IF AMP Q404 Q405
AM DET
D404
D403
AGC
AGC
AM OSC Q406
SIGNAL
MULTIPATH AMP Q204
MULTIPATH
S15
MULTIPATH
ME1
SIGNAL/MULTIPATH
— L-CH —
PHONO 1
PHONO 2
AUX
TAPE 1
REC OUT 1
TAPE 2
REC OUT 2
EXT ADPT
OUTPUT
INPUT
GROUND
S1-1
FUNCTION
EQ AMP Q501~503
S1-2
FUNCTION
PHONO2
PHONO1
FM
AM
AUX
S2
MONITOR
TAPE 2
S2-1
SOURCE
TAPE 1
SOURCE
TAPE1-2
TAPE2-1
SOURCE
TAPE1-2
TAPE 2-1
S3-1
TAPE COPY
S3-2
S6
EXT ADPT
OFF
ON
STEREO
MONO
S4-1
MONO
R-CH
OFF
-20dB
S5
MUTING
S7-1
OFF
LOW
LOUDNESS
PRESENCE
S7-2
ACOUSTIC COMP
RV601
VOLUME
FLAT AMP Q601 Q602
RV602
BALANCE
TONE AMP Q603
RV604
RV603
BASS
TREBLE
TONE
S8
HIGH FILTER
ON
OFF
S9
LOW FILTER
ON
OFF
DIFFERENTIAL AMP Q701
CLASS A AMP Q704
POWER AMP IC701
PROTECTOR / MUTING / RELAY DRIVER Q705~708 801~805
RY801
R-CH
HEADPHONES
SPEAKER
C
B
A
OFF
A+B
A+C
S10
SPEAKER
AUX
R-CH
— R-CH — (SAME AS L-CH)
R-CH
REC/PB
AEP, UK MODEL
(FM/AM BOARD) B+
(POWER AMP BOARD) B+
EQ AMP TONE CONTROL BOARD
B+
B-
REGULATOR Q931
REGULATOR Q932
D901
D902
AC IN
PL
B-
(POWER AMP BOARD)

## 1-2. DOLBY FM CIRCUIT DESCRIPTION

Today, the use of the Dolby noise reduction system in FM broadcasting has become quite widespread. STR-6800SD has been fully prepared for the reception of Dolby FM by the incorporation of a decoder circuit mounted in the tuner section.

Although the S/N ratio in FM broadcasting is greatly improved by means of the Dolby system, the actual broadcasted program has to pass through many amplification stages, which naturally leads to some increases in noise.

However, the human ear is not readily capable of discerning noise in the low frequency range because it tends to be masked by the actual signal. At high frequencies and at higher volume levels, again the human ear does not readily discern the noise component. In other words, the irritating ear-ringing noise only becomes apparent at low volume levels in the high frequency range.

Fig. 1-1 is a block diagram of the transmitting receiving systems involved in a Dolby FM broadcast, and as can be seen, the emphasis characteristics have been changed from the former 50 or 75 μsec. to 25 μsec. Consequently, there is less danger of auto-modulation when the modulation level is high, even in the high frequency range. And this has enabled the mean modulation ratio to be raised, and thus improves the S/N ratio.

Also at low modulation levels, there is no deterioration in the S/N ratio with the 25 μsec. de-emphasis because the frequency response in the high frequency range is dropped back as a result of the Dolby circuit on the receiver side.

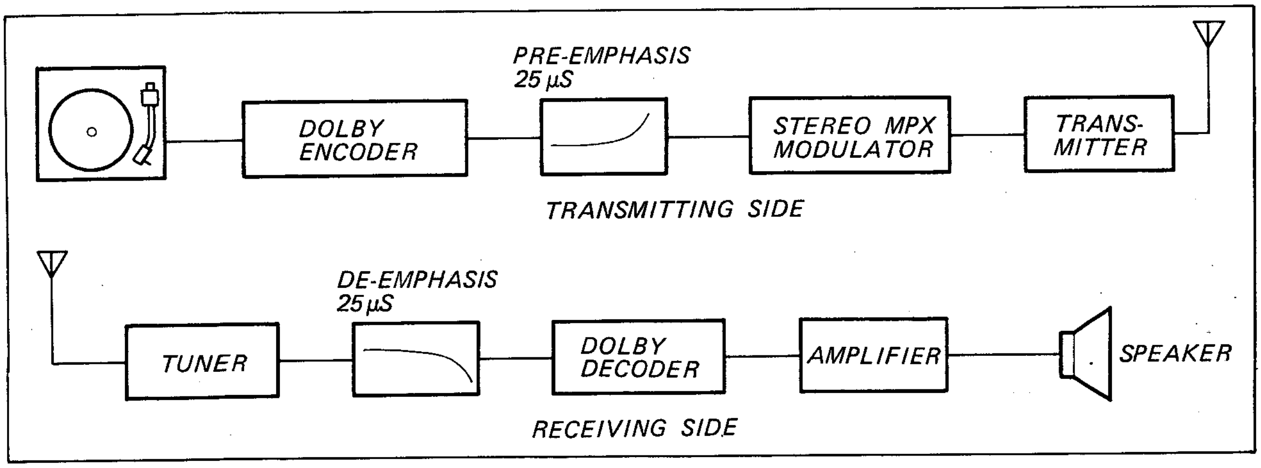


*Fig. 1-1.*

Fig. 1-2 shows the Dolby encoder and decoder characteristics. On the encoder side, the input level is reduced, thus raising the frequency response in the high frequency range. On the decoder side, the frequency response in the high frequency range is dropped again, so that the frequency response at the final stage are flat again. As a result, noise in the high frequency range is reduced by the same amount as the reduction at the decoder, thus greatly improving the S/N ratio. In Fig. 1-2, the frequency response of the Dolby circuit are flat at levels above 0 dB. This 0 dB level is taken as the base level, and is called the Dolby level. (This also corresponds to the audio level at 50 % modulation in the tuner).

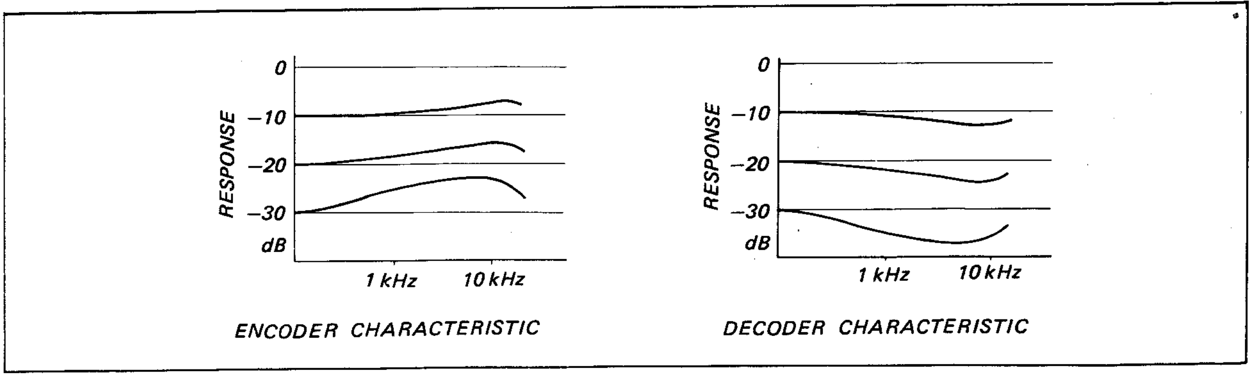


*Fig. 1-2.*

The Dolby circuit in this set incorporates ICs. Fig. 1-3 is a general circuit diagram of the decoder.

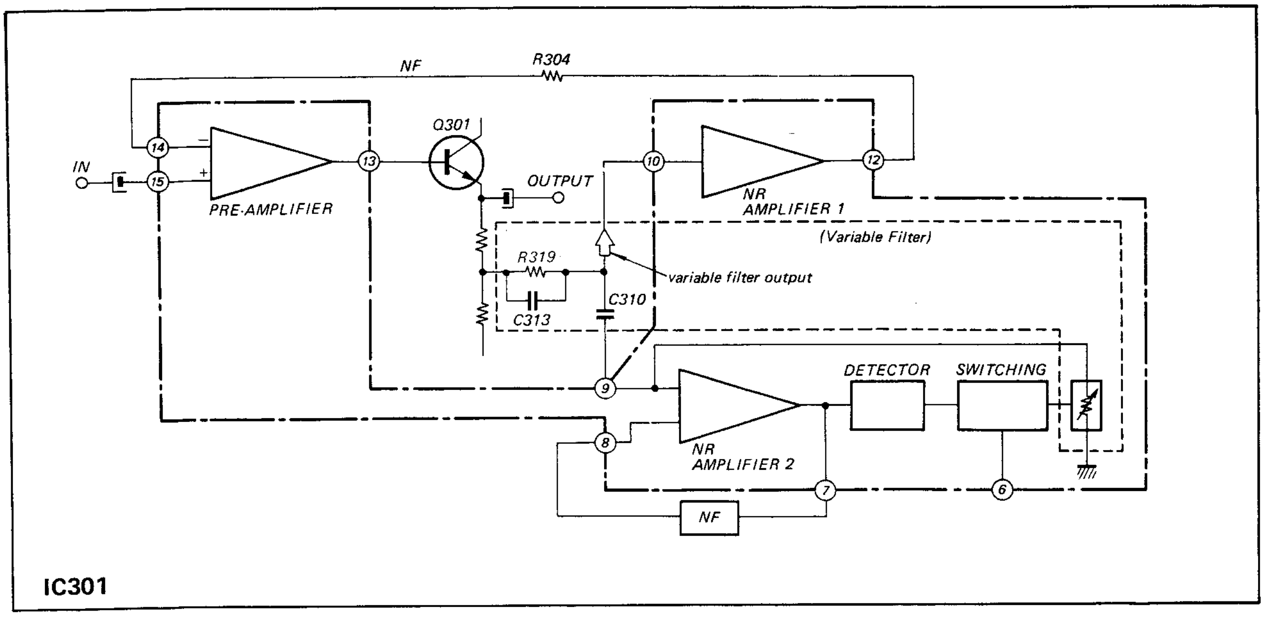

NF
R304
Q301
IN
14
15
13
PRE-AMPLIFIER
OUTPUT
10
12
NR AMPLIFIER 1
(Variable Filter)
R319
variable filter output
C310
C313
DETECTOR
SWITCHING
9
8
NR AMPLIFIER 2
7
6
NF
IC301

*Fig. 1-3.*

The input signal is applied to terminal ⑮ of the IC, passed through the pre-amplifier and the emitter follower Q301 via terminal ⑬ , and then on to the output terminal. This same input signal is also divided by the Q301 emitter resistor, and passed on to the variable filter. From terminal ⑩ , it is amplified at NR amplifier 1, and then applied to the ⊖ input (terminal ⑭ ) of the pre-amplifier, forming a negative feedback loop.

The variable filter output (variable filter characteristics), varies in accordance to impedance Z of the variable impedance element (see Fig. 1-4.).

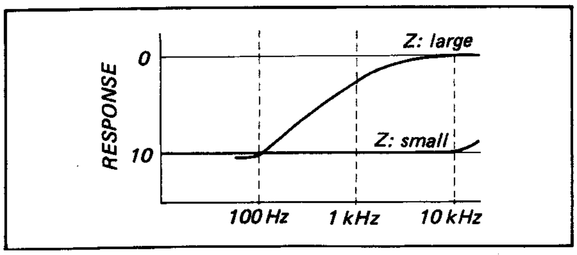


*Fig. 1-4.*

For large values of Z, the high frequency range of the variable filter output increases to about 10 dB. This output is then fed back to the pre-amplifier, thus causing the high frequency range of the pre-amplifier output to drop. When Z is small, however, the variable filter output remains more or less flat. Consequently, the pre-amplifier output also remains flat.

In other words, when the input level is low, a large variable impedance results in a much improved S/N ratio. The changes brought about in variable filter output (variable filter characteristics) by the variable impedance may be explained as follows:

When the signal reaches C313 and C310 (see Fig. 1-5), this block takes on the role of an attenuator, dividing the signal by capacitor partition. The division ratio is dependent on C313 to C310 ratio, irrespective of the signal frequency. Generally, it is about 14 dB (Fig. 1-6).

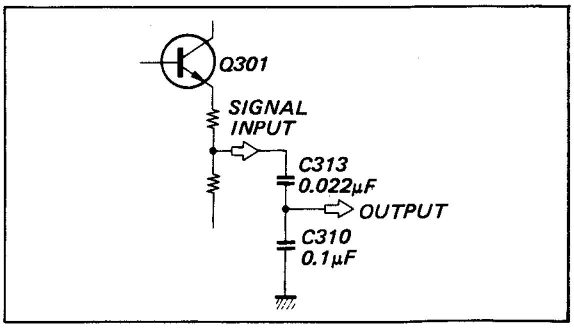

Q301
SIGNAL INPUT
C313
0.022μF
OUTPUT
C310
0.1μF

*Fig. 1-5.*

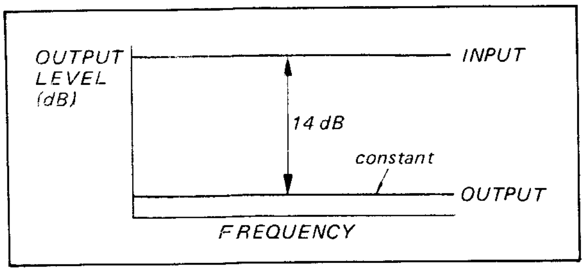


Fig. 1-6.

If R1 (assumed in this case to be variable between 47 and 600 ohm approximately) is then connected to C310 as shown in Fig. 1-7, the circuit will be given high boost characteristics at frequencies where Xc (of C310) equals R1.

For example, frequencies at which Xc = R1 (Fig. 1-8) include;

F1 of about 1.9 kHz when R1 = 600 ohm, and,
F2 of about 30 kHz when R1 = 47 ohm.

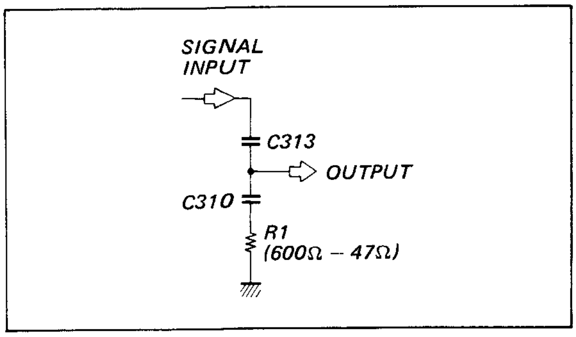


Fig. 1-7.

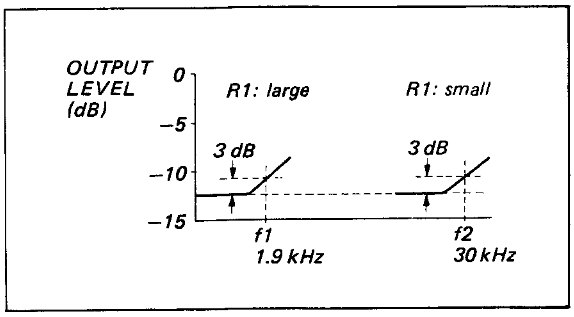


Fig. 1-8.

In the high frequency range when R1 = 600 ohm, the frequency f1 where Xc (of C313) = R1 is 3 dB points, and f1′ equals approximately 14 kHz (Fig. 1-9).

And when R1 = 47 ohm, the curve extends out beyond the audible range, leaving relatively flat characteristics in the audible range.

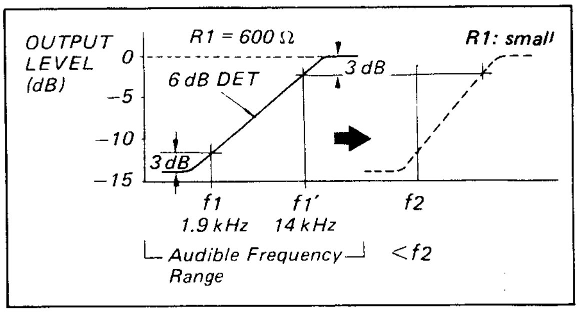


Fig. 1-9.

That is, the portion corresponding to R1 is the variable impedance Z. And the element controlling Z is the NR amplifier 2 (see Fig. 1-3). Since this amplifier is mainly activated by the high frequency signal components, its frequency characteristics will be as shown in Fig. 1-10. The signals passing this stage are rectified at DET, and given a suitable time constant, and thus control the variable impedance Z.

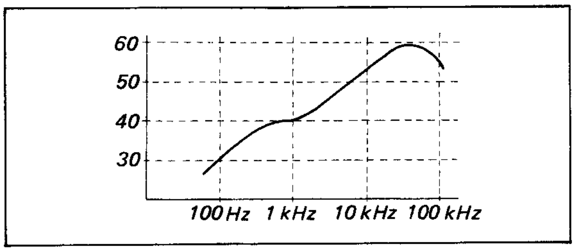


Fig. 1-10.

The level at which signals become subject to noise reduction is dependent on when the NR amplifier 2 drives the DET, and starts to activate the variable impedance Z (at the same value as R1 in Fig. 1-7). The Dolby circuit is turned on and off by the DOLBY FM switch. When the switch is turned off, a positive ⊕ potential is applied to terminal ⑥, thus reducing the variable impedance Z, and thus switching the Dolby circuit off.

To summarize the above,

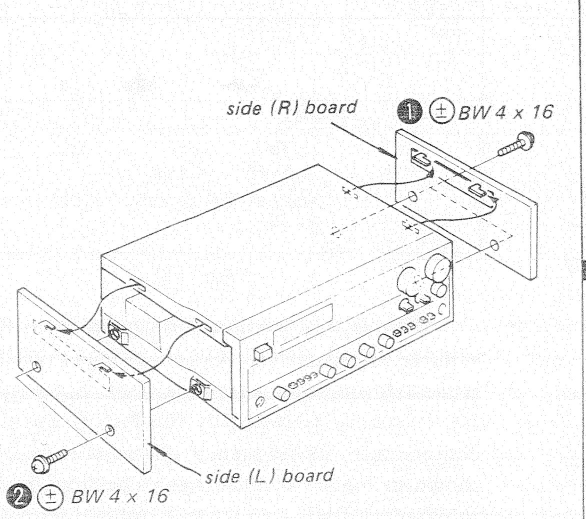
1. The reduced signal level is detected at NR amplifier 2.
2. The variable impedance Z is increased by the output of NR amplifier 2.
3. The amount of variable filter high frequency feedback is increased.
4. The frequency response of the high frequency range of the pre-amplifier is reduced, thus improving the S/N ratio.

## SECTION 2

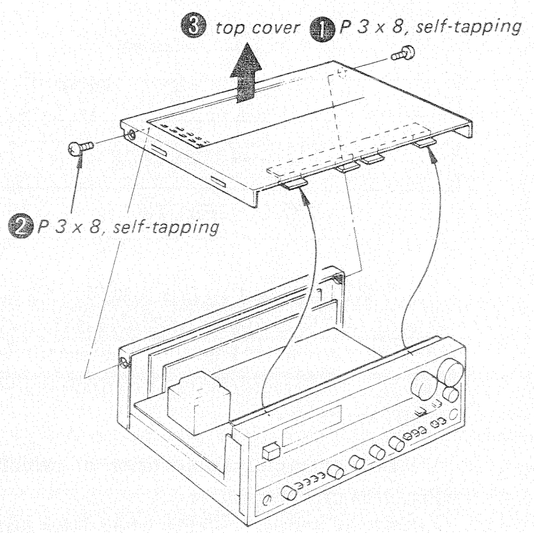
# DISASSEMBLY AND REPLACEMENT

### 2-1. REMOVAL

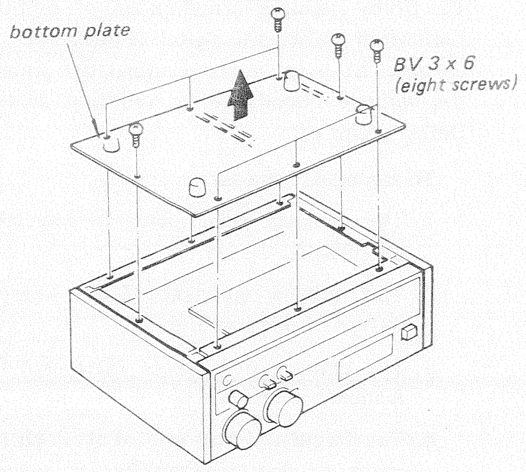
#### SIDE BOARD REMOVAL


side (R) board
① ⊕BW 4 x 16
side (L) board
② ⊕ BW 4 x 16

#### TOP COVER REMOVAL

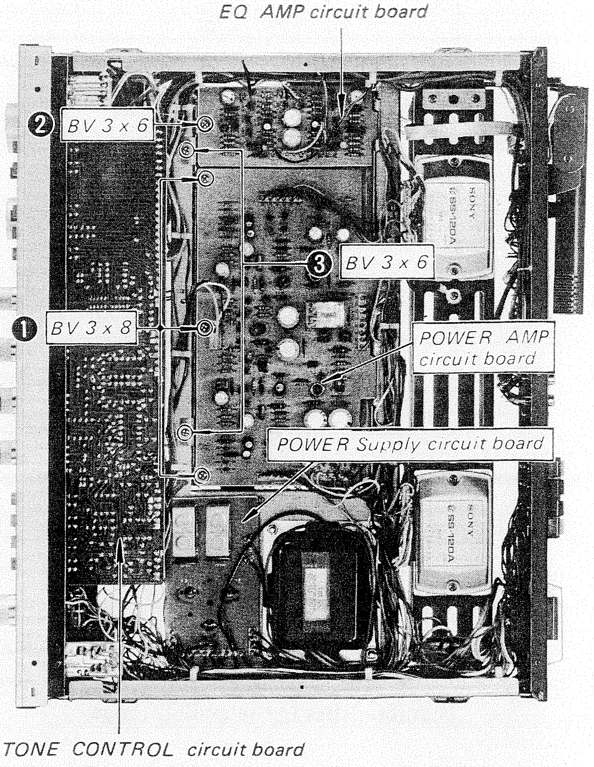

③ top cover
① P 3 x 8, self-tapping
② P 3 x 8, self-tapping

#### BOTTOM PLATE REMOVAL

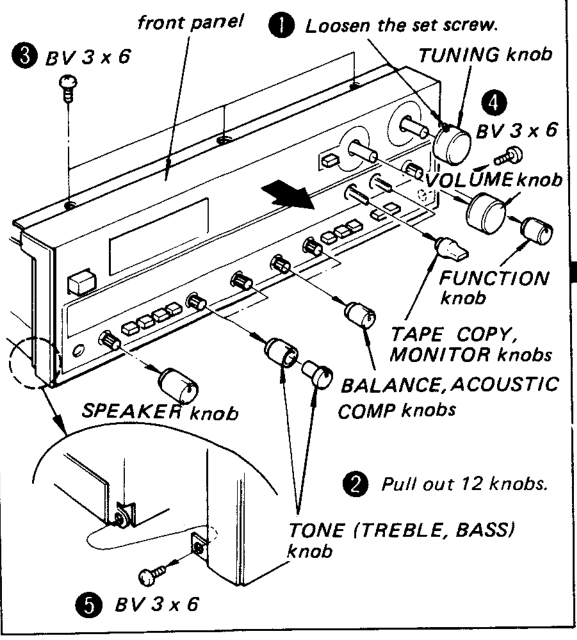

bottom plate
BV 3 x 6
(eight screws)

#### POWER AMP AND EQ AMP CIRCUIT BOARD REMOVAL

①: POWER AMP Circuit Board Removal
②: EQ AMP Circuit Board Removal


EQ AMP circuit board
② BV 3 x 6
③ BV 3 x 6
① BV 3 x 8
POWER AMP circuit board
POWER Supply circuit board
TONE CONTROL circuit board

## FRONT PANEL REMOVAL


front panel
❶ Loosen the set screw.
❸ BV 3 x 6
TUNING knob
❹ BV 3 x 6
VOLUME knob
FUNCTION knob
TAPE COPY, MONITOR knobs
BALANCE, ACOUSTIC COMP knobs
SPEAKER knob
❷ Pull out 12 knobs.
TONE (TREBLE, BASS) knob
❺ BV 3 x 6

## TONE CONTROL, AUX JACK AND HEADPHONES JACK CIRCUIT BOARD REMOVAL.

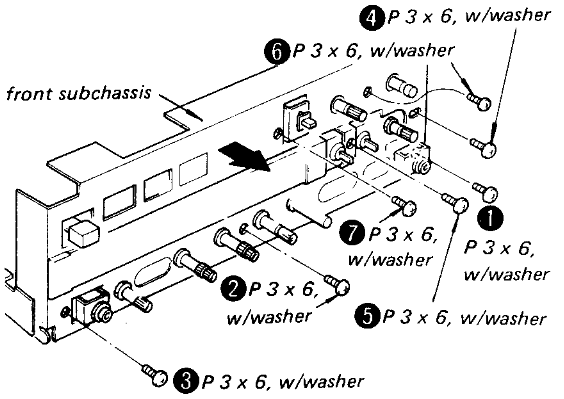
- Remove three screws ( ❶ – ❸ ). After removing the circuit boards from the front subchassis, replace the defective switch or jack.

## FUNCTION SWITCH CIRCUIT BOARD REMOVAL

- Remove two screws ( ❹ , ❺ ). After removing the circuit board from the front subchassis, replace the defective switch.

## VOLUME CONTROL CIRCUIT BOARD REMOVAL

- Remove two screws ( ❻ , ❼ ). After removing the circuit board from the front subchassis, replace the defective control.

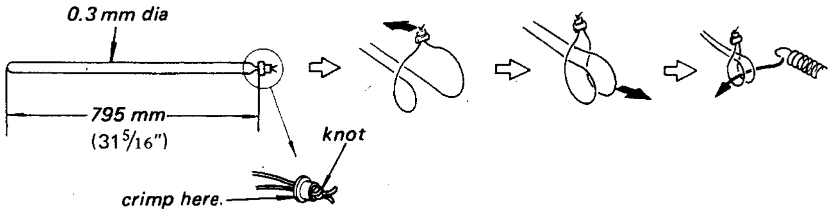

❹P 3 x 6, w/washer
❻P 3 x 6, w/washer
front subchassis
❼P 3 x 6, w/washer
❶ P 3 x 6, w/washer
❷P 3 x 6, w/washer
❺P 3 x 6, w/washer
❸P 3 x 6, w/washer

## REPLACEMENT OF THE COMPONENTS ON THE FM/AM CIRCUIT BOARD.

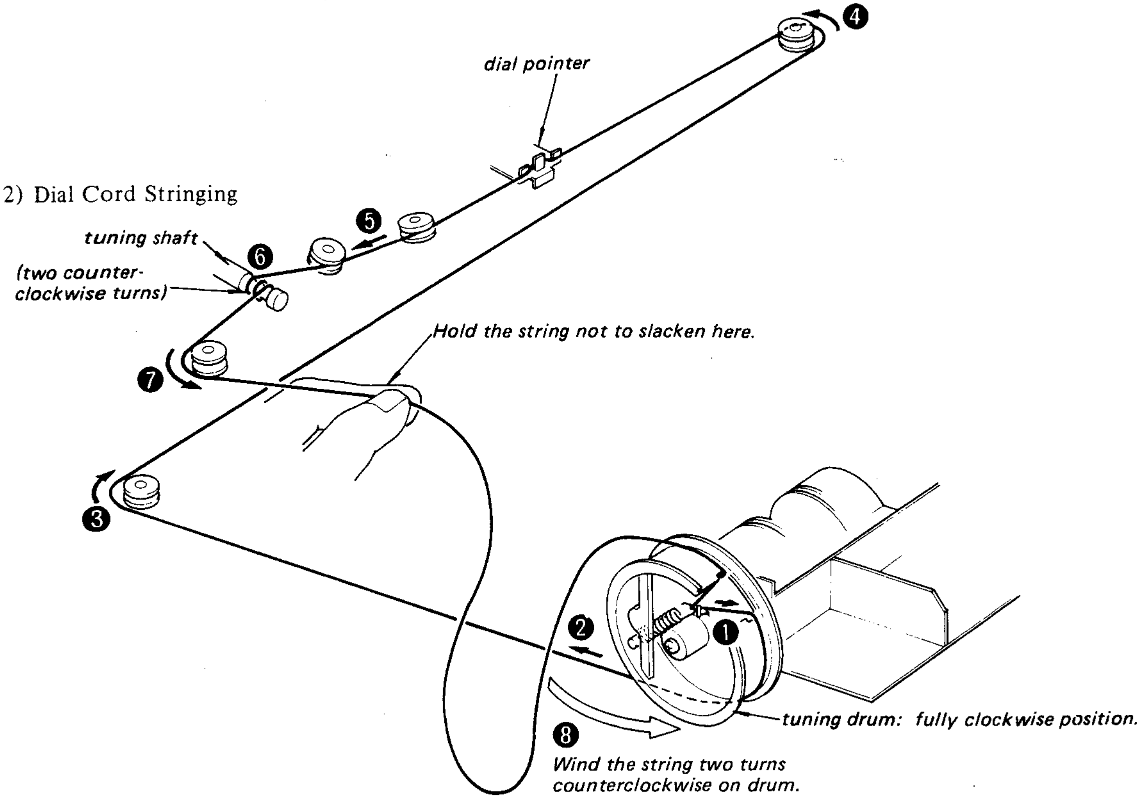
1. Remove two BV 3 x 6 screws ❸ securing the shield plate to the chassis.
2. Remove the shield plate from the chassis.
3. It is possible to unsolder the components on the front-end circuit board.

## 2-2. DIAL CORD STRINGING

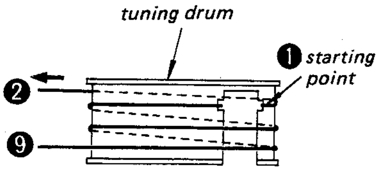
1) Dial Cord Length


0.3 mm dia
795 mm
(31 5/16")
knot
crimp here.

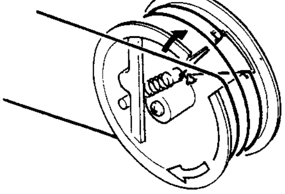
2) Dial Cord Stringing


❹
dial pointer
❺
tuning shaft
❻
(two counter-clockwise turns)
Hold the string not to slacken here.
❼
❸
❷
❶
tuning drum: fully clockwise position.
❽

*Wind the string two turns counterclockwise on drum.*


tuning drum
❶ starting point
❷
❾

❾ *Set the string on the drum.*



## SECTION 3

# ALIGNMENTS AND ADJUSTMENTS

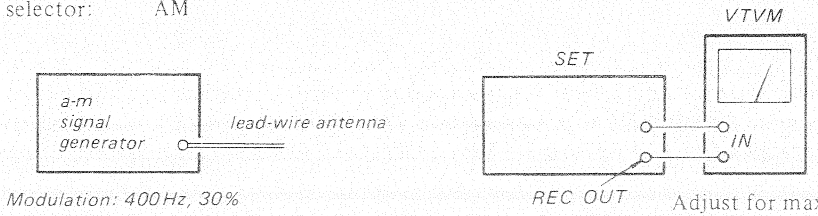
### FM FREQUENCY COVERAGE AND TRACKING ADJUSTMENT

Never attempt alignment of the fm front-end section for the fm frequency coverage and tracking adjustment. If the fm frequency coverage and tracking adjustments are required, consult the factory service center.

### AM FREQUENCY COVERAGE AND AM TRACKING ADJUSTMENT

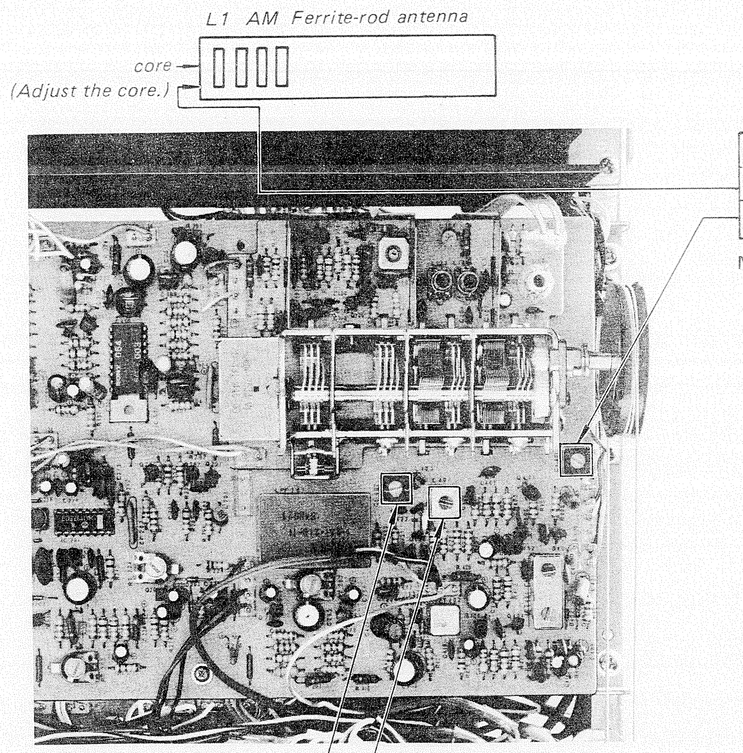
Test setup:

FUNCTION selector: AM


a-m signal generator
lead-wire antenna
SET
VTVM
IN
REC OUT

Modulation: 400 Hz, 30%

Adjust for maximum reading.


L1 AM Ferrite-rod antenna
core
(Adjust the core.)

| Step | AM TRACKING ADJUSTMENT |
|---|---|
| 1 | L1 (600 kHz) |
| 2 | CT401 (1,400 kHz) |

Note: Repeat step 1 and 2 several times, and finish the alignment at step 2.

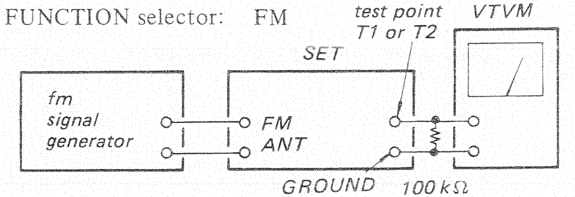
| Step | AM FREQUENCY COVERAGE ADJUSTMENT |
|---|---|
| 1 | L402 (520 kHz) |
| 2 | CT402 (1,680 kHz) |

Note: Repeat step 1 and 2 several times, and finish the alignment at step 2.

### FM OUTPUT LEVEL ADJUSTMENT

Setup:

FUNCTION selector: FM


fm signal generator
SET
FM ANT
test point T1 or T2
VTVM
GROUND
100 kΩ

FM Signal Generator Setting:

Carrier frequency: 98 MHz

Modulation: 400 Hz, 75 kHz deviation (100%)

Output level: 1 mV (60 dB)

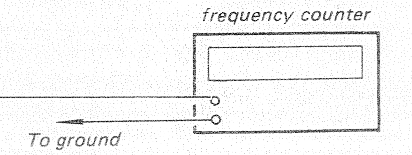
Procedure:

Adjust RT201 for 870 mV on the VTVM.

### MPX ADJUSTMENT

Setup:

FUNCTION selector: FM


frequency counter
To ground

FM Signal Generator Setting:

Carrier frequency: 98 MHz

Modulation: no modulation

Output level: 3.2 mV (70 dB)

Procedure:

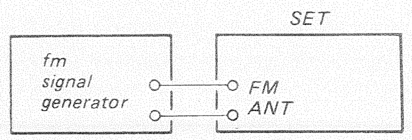
Adjust RT205 for 19 kHz ± 100 Hz on the counter.

Note: Perform this adjustment after the power switch turned ON and one minute passed.

### SIGNAL METER ADJUSTMENT

Setup:

FUNCTION selector: FM


fm signal generator
SET
FM ANT

FM Signal Generator Setting:

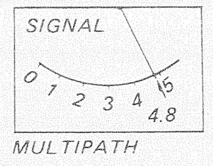
Carrier frequency: 98 MHz

Modulation: no modulation

Output level: 3.2 mV (70 dB)

Procedure:

Tune the set to 98 MHz and adjust RT204 for specified pointer position (See figure below.) on the SIGNAL meter.

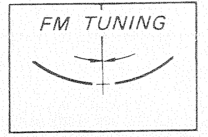

SIGNAL
0 1 2 3 4 5
4.8
MULTIPATH

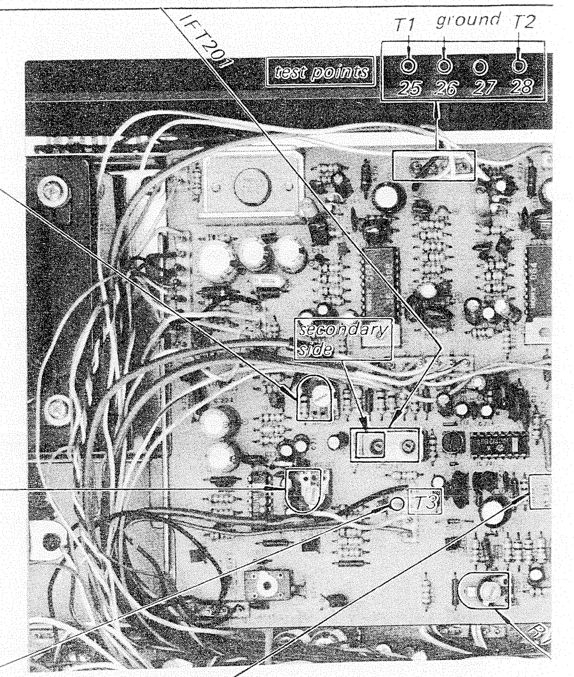
### FM DISCRIMINATOR ALIGNMENT

Procedure:

FUNCTION selector: FM

1. Detune the set.
2. Adjust the secondary side core of IFT201 for zero center on the TUNING meter.




IFT201
T1 ground T2
test points
25 26 27 28
secondary side
T3
RT201
RT205
test point T3
RT204

MUT

Setu

F

M

fr
si
ge

FM

C

M

Proc

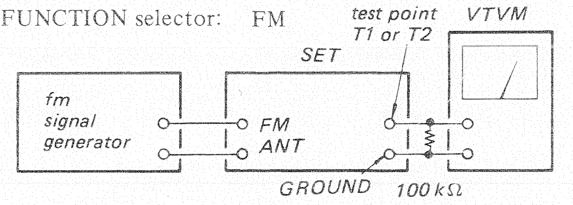
1. S
5.

2. A
d

## FM OUTPUT LEVEL ADJUSTMENT

**Setup:**

FUNCTION selector: FM


test point
T1 or T2
VTVM
SET
fm
signal
generator
FM
ANT
GROUND
100 kΩ

FM Signal Generator Setting:

| | |
|---|---|
| Carrier frequency: | 98 MHz |
| Modulation: | 400 Hz, 75 kHz deviation (100 %) |
| Output level: | 1 mV (60 dB) |

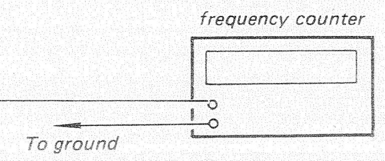
**Procedure:**

Adjust RT201 for 870 mV on the VTVM.

## MPX ADJUSTMENT

**Setup:**

FUNCTION selector: FM


frequency counter
To ground

FM Signal Generator Setting:

| | |
|---|---|
| Carrier frequency: | 98 MHz |
| Modulation: | no modulation |
| Output level: | 3.2 mV (70 dB) |

**Procedure:**

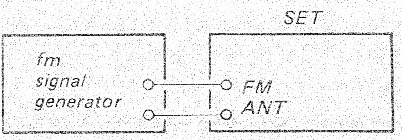
Adjust RT205 for 19 kHz ± 100 Hz on the counter.

**Note:** Perform this adjustment after the power switch turned ON and one minute passed.

## SIGNAL METER ADJUSTMENT

**Setup:**

FUNCTION selector: FM

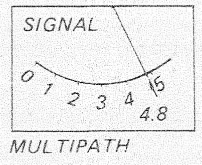

SET
fm
signal
generator
FM
ANT

FM Signal Generator Setting:

| | |
|---|---|
| Carrier frequency: | 98 MHz |
| Modulation: | no modulation |
| Output level: | 3.2 mV (70 dB) |

**Procedure:**

Tune the set to 98 MHz and adjust RT204 for specified pointer position (See figure below.) on the SIGNAL meter.

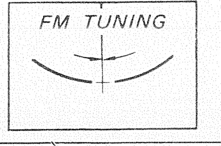

SIGNAL
0
1
2
3
4
5
4.8
MULTIPATH

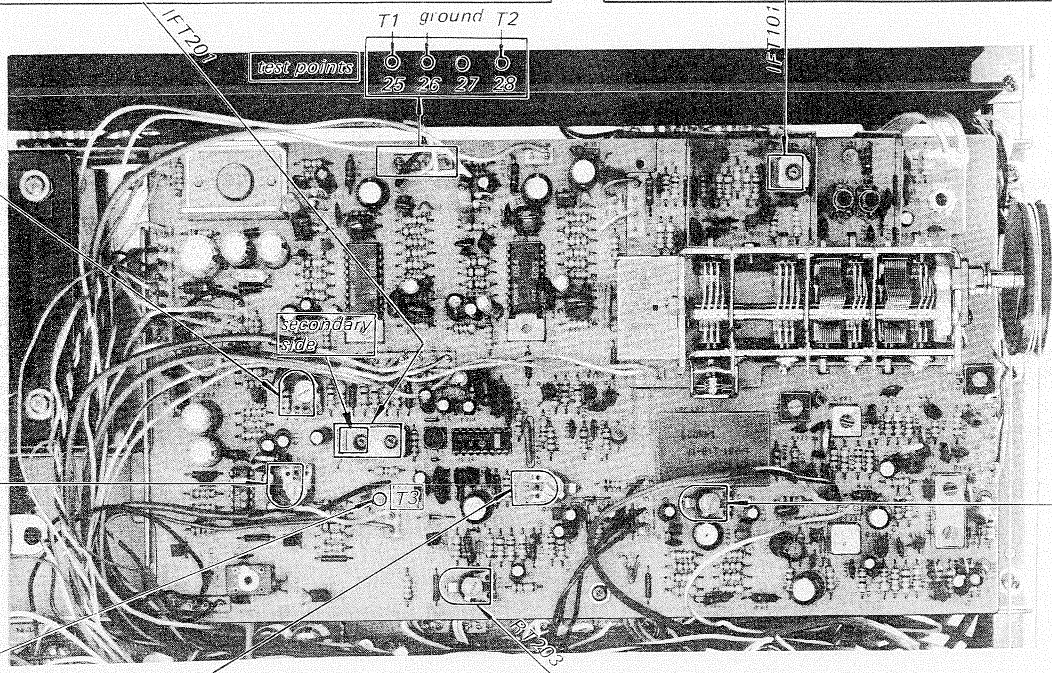
## FM DISCRIMINATOR ALIGNMENT

**Procedure:**

FUNCTION selector: FM

1. Detune the set.
2. Adjust the secondary side core of IFT201 for zero center on the TUNING meter.

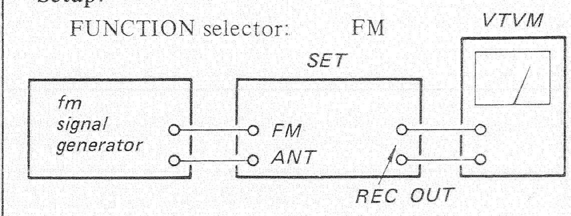



T1
ground
T2
test points
25
26
27
28
IFT201
IFT101
secondary side
T3
RT201
RT205
RT202
RT203
RT204
test point T3

## FM IF ALIGNMENT

**Setup:**

FUNCTION selector: FM


VTVM
SET
fm
signal
generator
FM
ANT
REC OUT

FM Signal Generator Setting:

| | |
|---|---|
| Carrier frequency: | 98 MHz |
| Modulation: | 400 Hz, 75 kHz deviation (100 %) |

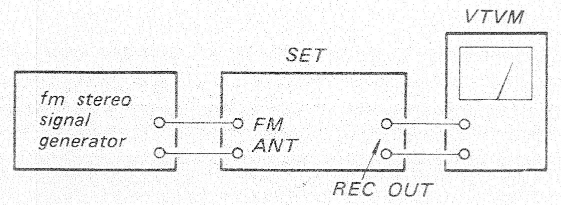
**Procedure:**

Tune the set to 98 MHz and adjust IFT101 for maximum reading on the VTVM.

## FM STEREO SEPARATION ADJUSTMENT

**Setup:**

FUNCTION selector: FM


VTVM
SET
fm stereo
signal
generator
FM
ANT
REC OUT

FM Stereo Signal Generator Setting:

| | |
|---|---|
| Carrier frequency: | 98 MHz |
| Output level: | 1 mV (60 dB) |
| Mode: | Stereo |
| Audio (400 Hz) Mode: | 67.5 kHz (90 %) |
| Pilot (19 kHz) Mode: | 7.5 kHz (10 %) |

Procedure:

| FM stereo signal generator modulated channel | VTVM connection | VTVM reading |
|---|---|---|
| L-CH | L-CH | Ⓐ |
| R-CH | L-CH | Ⓑ<br>Adjust RT202 for minimum reading. |
| R-CH | R-CH | Ⓒ |
| L-CH | R-CH | Ⓓ<br>Adjust RT202 for minimum reading. |

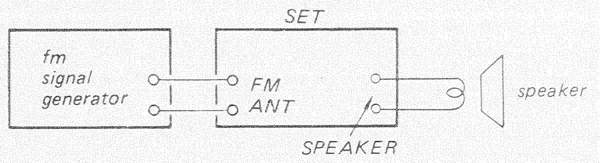
Stereo separation: Ⓐ – Ⓑ, Ⓒ – Ⓓ.

The difference of the separations Ⓐ – Ⓑ and Ⓒ – Ⓓ should be within 3 dB.

## MUTING LEVEL ADJUSTMENT

**Setup:**

| | |
|---|---|
| FUNCTION selector: | FM |
| MUTING switch: | ON |


SET
fm
signal
generator
FM
ANT
speaker
SPEAKER

FM Signal Generator Setting:

| | |
|---|---|
| Carrier frequency: | 98 MHz |
| Modulation: | 400 Hz, 75 kHz deviation (100 %) |

**Procedure:**

1. Set the output level of the fm signal generator to 5.6 μV (15 dB).
2. Adjust RT203 for the point that the sound just disappears.

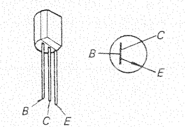
# SECTION 4

# DIAGRAMS

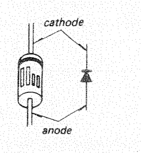
## 4-1. MOUNTING DIAGRAM – FRONT-END, FM/AM Boards –

*– Conductor Side –*

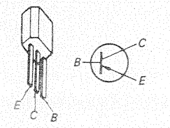
Q201 ~ 203, Q405, 406 : 2SC710



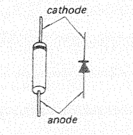
D206: EQA01-16R


cathode
anode

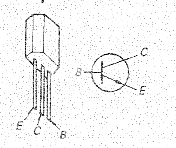
Q208: 2SA677



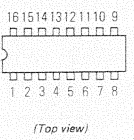
D207, 208: 10E2
D201, 403, 404: 1T22A
D202 ~ 204, D401, 402 : 1T40


cathode
anode

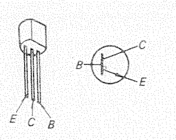
Q204, 205, 207, Q209 : 2SC634A
Q401 ~ 404: 2SC403C
Q206, 210, 211, Q301, 351 : 2SC632A



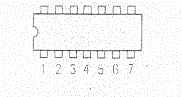
IC201: HA1137W


16 15 14 13 12 11 10 9
1 2 3 4 5 6 7 8
(Top view)

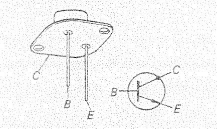
Q213 ~ 215: 2SC945



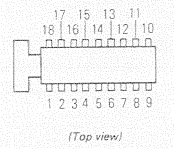
IC202: HA1156


14 13 12 11 10 9 8
1 2 3 4 5 6 7
(Top view)

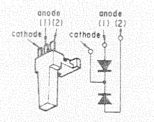
Q212: 2SD291



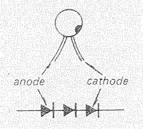
IC301, 351: CX064

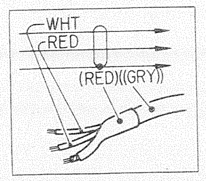

17 15 13 11
18 16 14 12 10
1 2 3 4 5 6 7 8 9
(Top view)

D1: TX312


anode (1)(2)
anode (1) (2)
cathode
cathode

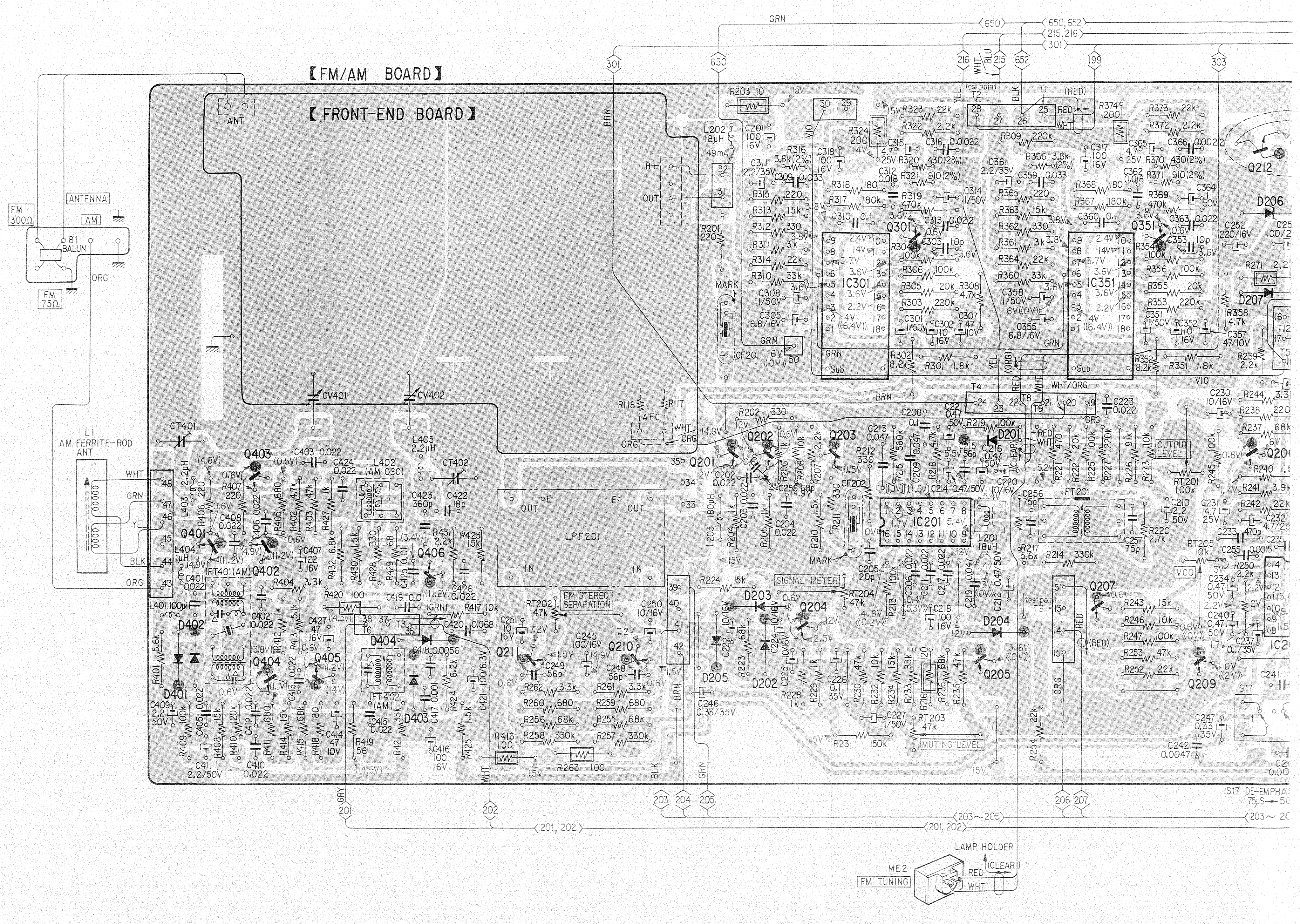
D205: MV203V


anode
cathode

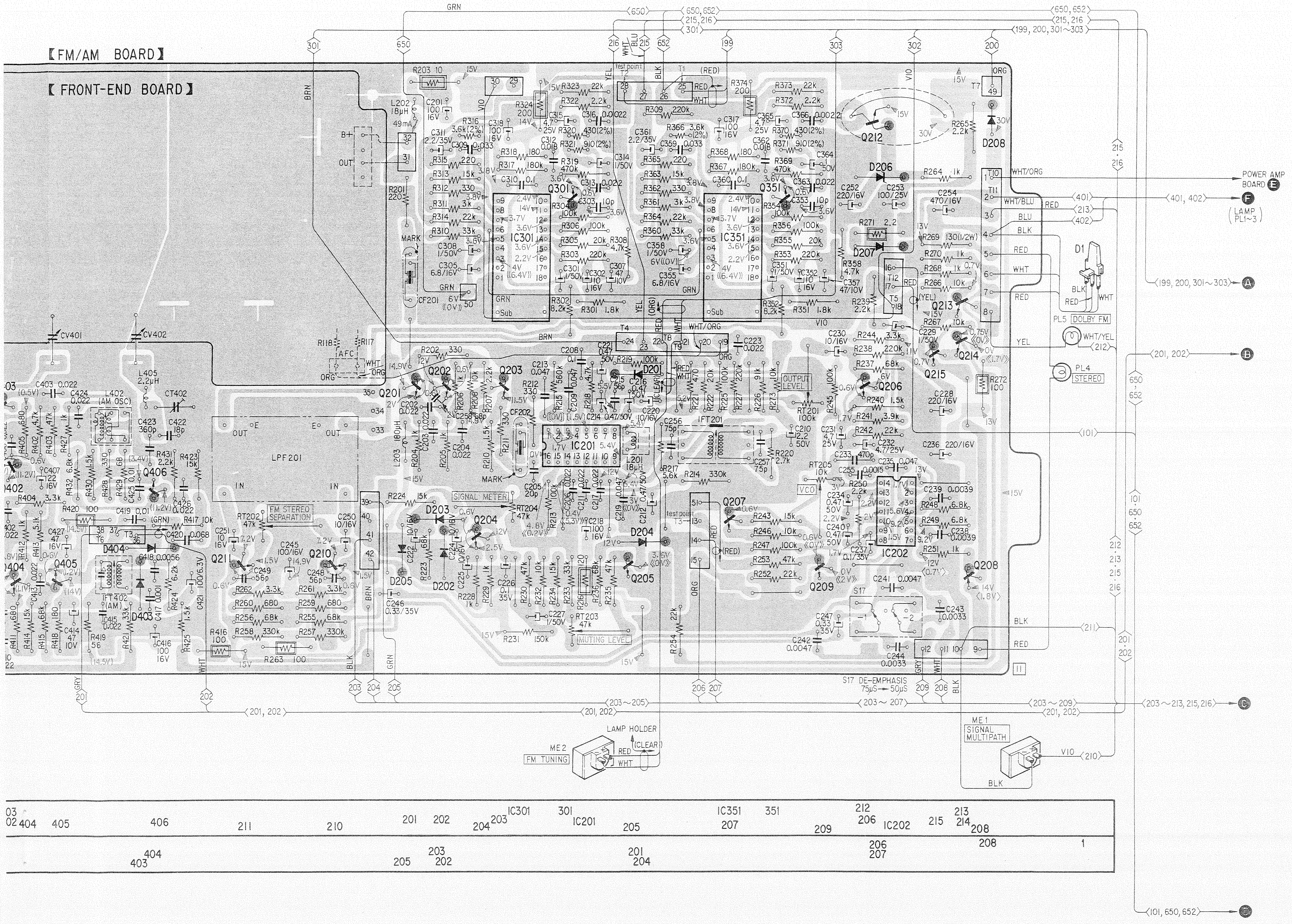

WHT
RED
(RED)(GRY)

Note:

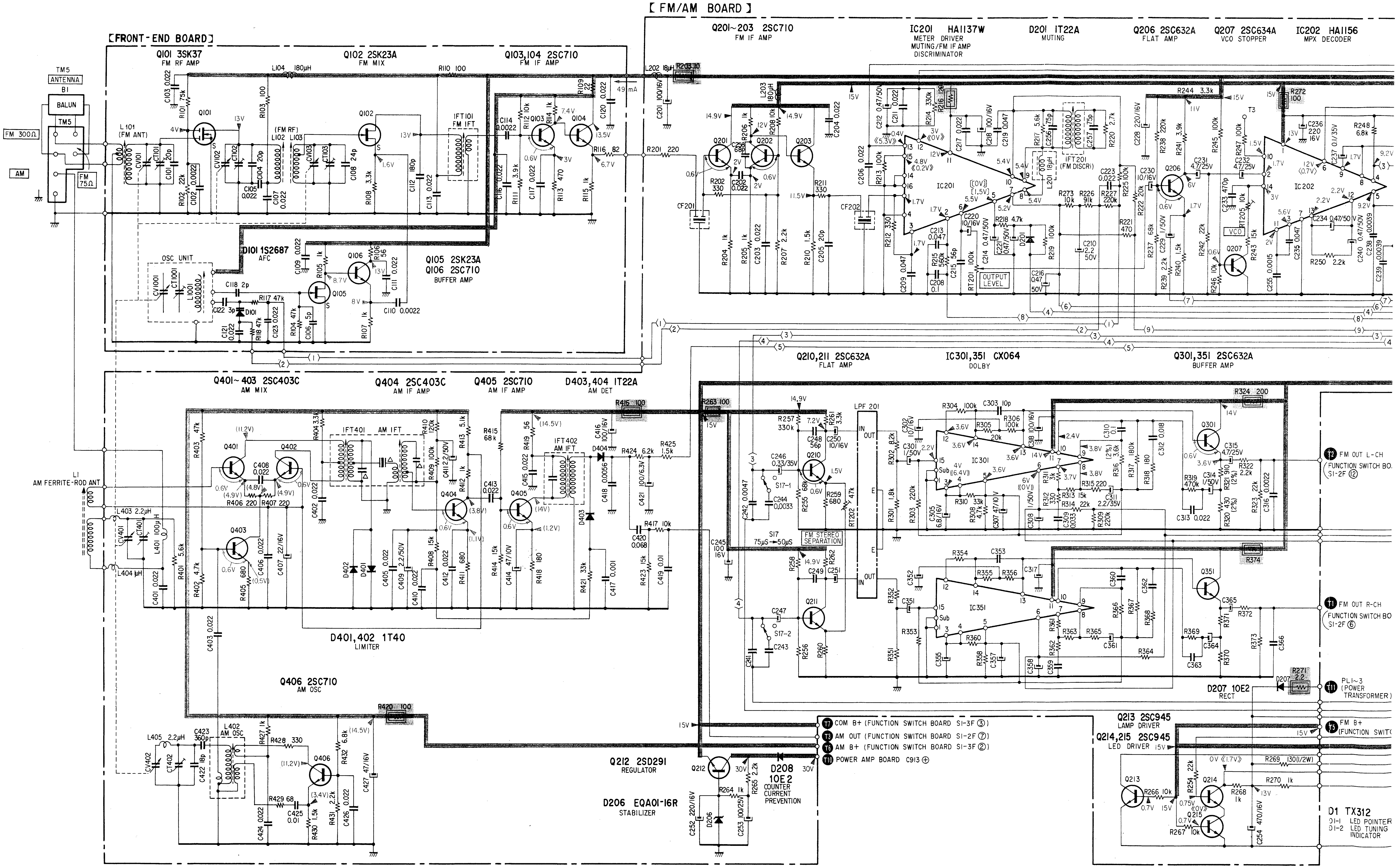
- ▨ : B+ pattern
- ⊡ : nonflammable resistor
- ⬚ : part number side

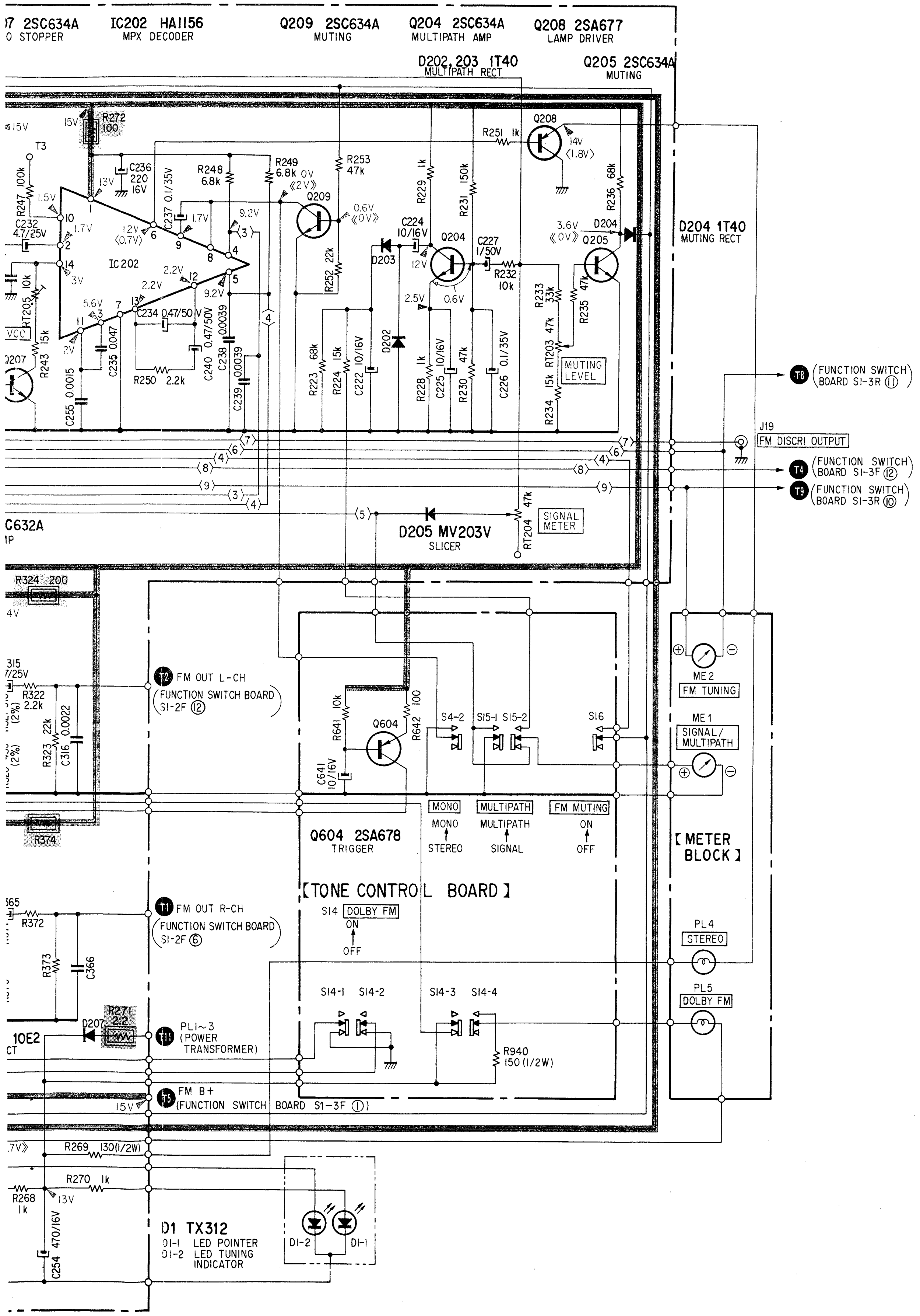

【FM/AM BOARD】
【FRONT-END BOARD】
ANT
ANTENNA
AM
FM 300Ω
FM 75Ω
B1 BALUN
ORG
L1 AM FERRITE-ROD ANT
WHT
GRN
YEL
BLK
ORG
CV401
CV402
CT401
CT402
L402 (AM OSC)
IFT401(AM)
IFT402 (AM)
L405 2.2μH
LPF201
IN
OUT
B+
AFC
SIGNAL METER
FM STEREO SEPARATION
MUTING LEVEL
OUTPUT LEVEL
VCO
MARK
IC201
IC301
IC351
IFT201
CF201
CF202
T1
T2
T4
T5
T6
T7
GRN
BRN
WHT
BLU
GRY
650
301
216
215
652
199
303
201
202
203
204
205
206
207
(650, 652)
(215, 216)
(301)
(201, 202)
(203~205)
LAMP HOLDER
ME2
FM TUNING
RED
WHT
(CLEAR)
S17 DE-EMPHASIS 75μS

| | |
|---|---|
| Q & IC | 401, 403, 402, 404, 405, 406, 211, 210, 201, 202, 204, 203, IC301, 301, IC201, 205, IC351, 207, 351, 209, 212, 206, IC2 |
| D | 401, 402, 404, 403, 205, 203, 202, 201, 204, 206, 207 |


【FM/AM BOARD】
【FRONT-END BOARD】
POWER AMP BOARD E
LAMP (PL1~3)
PL5 DOLBY FM
PL4 STEREO
LPF201
IC301
IC351
IC201
IC202
IFT201
IFT402 (AM)
L402 (AM OSC)
CV401
CV402
AFC
FM STEREO SEPARATION
SIGNAL METER
MUTING LEVEL
OUTPUT LEVEL
VCO
S17 DE-EMPHASIS 75µs ← 50µs
ME2 FM TUNING
LAMP HOLDER
ME1 SIGNAL MULTIPATH
Q212
D206
D207
D208
D1
(199, 200, 301~303) A
(201, 202) B
(203~213, 215, 216) C
(101, 650, 652) D
(401, 402) F

## 4-2. SCHEMATIC DIAGRAM – FRONT-END, FM/AM Section –


[FRONT-END BOARD]
[FM/AM BOARD]
TM5 ANTENNA
B1 BALUN
FM 300Ω
FM 75Ω
AM
Q101 3SK37 FM RF AMP
Q102 2SK23A FM MIX
Q103,104 2SC710 FM IF AMP
L101 (FM ANT)
IFT101 FM IFT
OSC UNIT
D101 1S2687 AFC
Q105 2SK23A
Q106 2SC710
BUFFER AMP
Q201~203 2SC710 FM IF AMP
IC201 HA1137W METER DRIVER MUTING/FM IF AMP DISCRIMINATOR
D201 1T22A MUTING
Q206 2SC632A FLAT AMP
Q207 2SC634A VCO STOPPER
IC202 HA1156 MPX DECODER
IFT201 (FM DISCRI)
OUTPUT LEVEL
VCO
CF201
CF202
Q401~403 2SC403C AM MIX
Q404 2SC403C AM IF AMP
Q405 2SC710 AM IF AMP
D403,404 1T22A AM DET
IFT401 AM IFT
IFT402 AM IFT
L1 AM FERRITE-ROD ANT
D401,402 1T40 LIMITER
Q406 2SC710 AM OSC
L402 AM OSC
Q210,211 2SC632A FLAT AMP
IC301,351 CX064 DOLBY
Q301,351 2SC632A BUFFER AMP
LPF 201
IC301
IC351
S17 75μS→50μS
FM STEREO SEPARATION
FM OUT L-CH (FUNCTION SWITCH BO. S1-2F ⑫)
FM OUT R-CH (FUNCTION SWITCH BO. S1-2F ⑥)
D207 10E2 RECT
PL1~3 (POWER TRANSFORMER)
COM B+ (FUNCTION SWITCH BOARD S1-3F ③)
AM OUT (FUNCTION SWITCH BOARD S1-2F ⑦)
AM B+ (FUNCTION SWITCH BOARD S1-3F ②)
POWER AMP BOARD C913 ⊕
FM B+ (FUNCTION SWITC
Q212 2SD291 REGULATOR
D208 10E2 COUNTER CURRENT PREVENTION
D206 EQA01-16R STABILIZER
Q213 2SC945 LAMP DRIVER
Q214,215 2SC945 LED DRIVER
D1 TX312
D1-1 LED POINTER
D1-2 LED TUNING INDICATOR
R203 10
R216 120
R272 100
R244 3.3k
R416 100
R263 100
R324 200
R374
R271 2.2
R420 100
R269 130(1/2W)
R270 1k
15V
30V
14.9V
13V
49mA



IC202 HA1156
MPX DECODER
Q209 2SC634A
MUTING
Q204 2SC634A
MULTIPATH AMP
Q208 2SA677
LAMP DRIVER
D202, 203 1T40
MULTIPATH RECT
Q205 2SC634A
MUTING
D204 1T40
MUTING RECT
R272 100
C236 220 16V
R248 6.8k
R249 6.8k
R253 47k
R251 1k
R229 1k
R231 150k
R236 68k
C224 10/16V
C227 1/50V
R232 10k
R233 33k
R235 47k
RT203 47k
MUTING LEVEL
R234 15k
C237 0.1/35V
C234 0.47/50V
C235 0.047
C255 0.0015
R250 2.2k
C240 0.47/50V
C238 0.0039
C239 0.0039
R223 68k
R224 15k
C222 10/16V
D202
R228 1k
C225 10/16V
R230 47k
C226 0.1/35V
R252 22k
D203
J19
FM DISCRI OUTPUT
T8 (FUNCTION SWITCH BOARD S1-3R ⑪)
T4 (FUNCTION SWITCH BOARD S1-3F ⑫)
T9 (FUNCTION SWITCH BOARD S1-3R ⑩)
D205 MV203V
SLICER
RT204 47k
SIGNAL METER
R324 200
T2 FM OUT L-CH (FUNCTION SWITCH BOARD S1-2F ⑫)
R322 2.2k
R323 22k
C316 0.0022
R374
T1 FM OUT R-CH (FUNCTION SWITCH BOARD S1-2F ⑥)
R372
R373
C366
R271 2.2
D207
T11 PL1~3 (POWER TRANSFORMER)
T5 FM B+ (FUNCTION SWITCH BOARD S1-3F ①)
R269 130(1/2W)
R270 1k
R268 1k
C254 470/16V
D1 TX312
D1-1 LED POINTER
D1-2 LED TUNING INDICATOR
D1-2
D1-1
R641 10k
R642 100
C641 10/16V
Q604
Q604 2SA678
TRIGGER
S4-2
S15-1 S15-2
S16
MONO
MULTIPATH
FM MUTING
MONO ↑ STEREO
MULTIPATH ↑ SIGNAL
ON ↑ OFF
【TONE CONTROL BOARD】
S14 DOLBY FM
ON ↑ OFF
S14-1 S14-2
S14-3 S14-4
R940 150(1/2W)
ME2
FM TUNING
ME1
SIGNAL/MULTIPATH
【METER BLOCK】
PL4
STEREO
PL5
DOLBY FM

Note:

- All capacitors are in μF unless otherwise noted. 50 or less working volts are omitted except for electrolytic type. p = μμF.
- All resistors are in Ω, ¼W, unless otherwise noted. k = 1,000 M = 1,000k
- ▭ indicates nonflammable resistor
- △ indicates internal components
- (2%) of resistor indicates the tolerance (±2%).
- ▬ indicates B+ circuit
- Voltages are DC with respect to ground unless otherwise noted. Readings are taken under no-signal conditions with a VOM (20kΩ/V).

  ≪ ≫: FM (Tuned in FM signal) < >: FM STEREO

  (( )): DOLBY FM (S14) —— ON [[ ]] : MUTING (S16) (Tuned in FM signal) —— ON

  [ ] : MUTING (S16) (no signal input) —— ON ( ) : FUNCTION (S1) —— AM

  no mark: FUNCTION (S1) —— FM
- Voltage variations may be noted due to normal production tolerances.
- Voltage between base and emitter are measured with 2.5 V range.
- Switch Mode:

| Ref. No. | Switch | Position |
|---|---|---|
| S4 | MONO | STEREO |
| S14 | DOLBY FM | OFF |
| S15 | MULTIPATH | SIGNAL |
| S16 | FM MUTING | OFF |
| S17 | DE-EMPHASIS | 75μs |

**Note: The components identified by shading are critical for safety. Replace only with part number specified.**

## 4-3. MOUNTING DIAGRAM – AUDIO Amplifier Boards –

*– Conductor Side –*

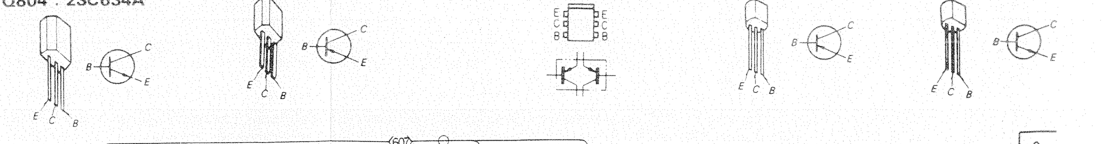
Q501, 551 } 2SC1636
Q601, 651 }
Q603, 653 }
Q706, 756 } 2SC632A
Q707, 757 }
Q804 : 2SC634A

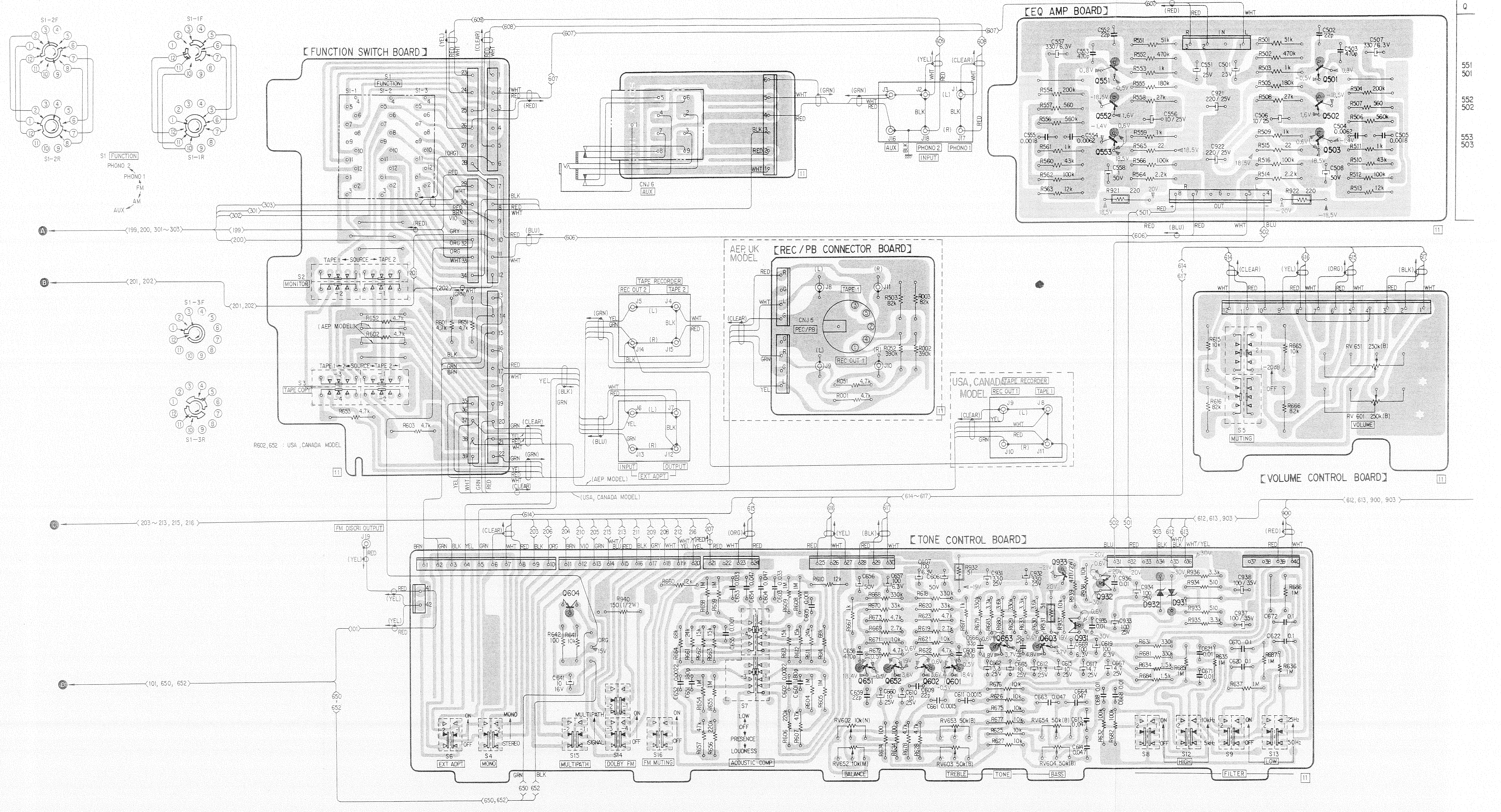
Q502, 503, 602, 652 } 2SA705
Q552, 553, 702, 752 }
Q705, 755, 604, 708 } 2SA678
Q758, 801 ~ 803 }
Q933: 2SA677

Q701, 751: 2SA884

Q703, 753: 2SA896

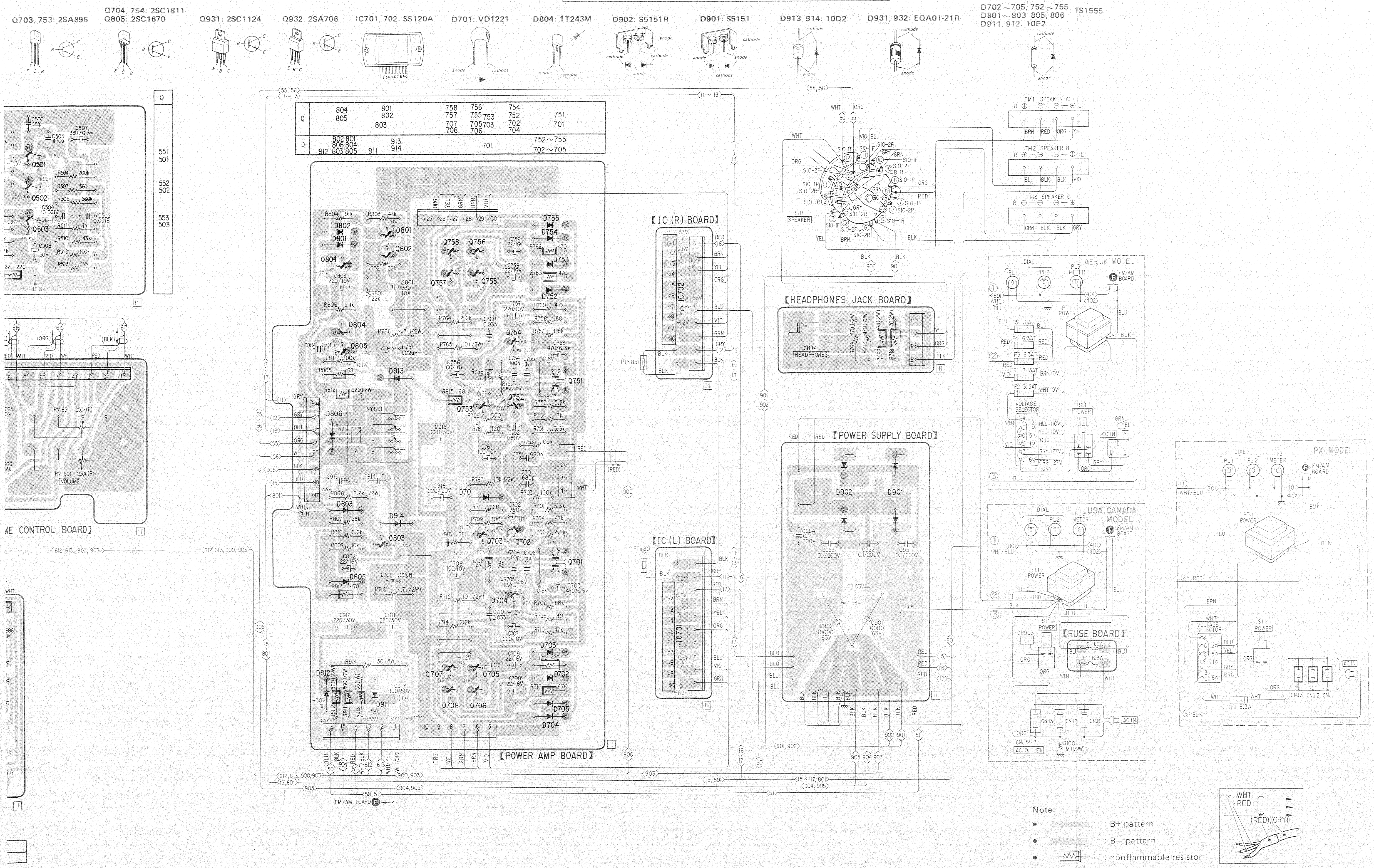
Q704, 754: 2SC1
Q805: 2SC1670


E
C
B
E
C
B
E
C
B
E
C
B
E
C
B
E
C
B


[FUNCTION SWITCH BOARD]
[EQ AMP BOARD]
[REC/PB CONNECTOR BOARD]
AEP, UK MODEL
USA, CANADA MODEL
[VOLUME CONTROL BOARD]
[TONE CONTROL BOARD]
S1-2F
S1-1F
S1-2R
S1-1R
S1-3F
S1-3R
S1 FUNCTION
PHONO 2
PHONO 1
FM
AM
AUX
S2 MONITOR
S3 TAPE COPY
TAPE 1 ← SOURCE → TAPE 2
R602, 652 : USA, CANADA MODEL
CNJ 6 AUX
J16 AUX
J18 PHONO 2
J17 PHONO 1
INPUT
TAPE RECORDER
REC OUT 2
TAPE 2
INPUT
EXT ADPT
OUTPUT
CNJ 5 REC/PB
REC OUT 1
TAPE 1
IN
OUT
S5 MUTING
RV 601 250k(B) VOLUME
RV 651 250k(B)
FM DISCRI OUTPUT
S6 EXT ADPT
S4 MONO
S15 MULTIPATH
S14 DOLBY FM
S16 FM MUTING
S7 ACOUSTIC COMP
LOW
OFF
PRESENCE
LOUDNESS
RV652 10k(M) BALANCE
RV653 50k(B) TREBLE
TONE
RV654 50k(B) BASS
S8
S12 HIGH
S9
S13 LOW
FILTER
10kHz
5kHz
25Hz
50Hz
A
B
C
D

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Q | 604 | 651 | 652 | 602 | 601 | 653 | 603 | 933 | 931 | 932 | |
| D | | | | | | | | | | | 932 931 |

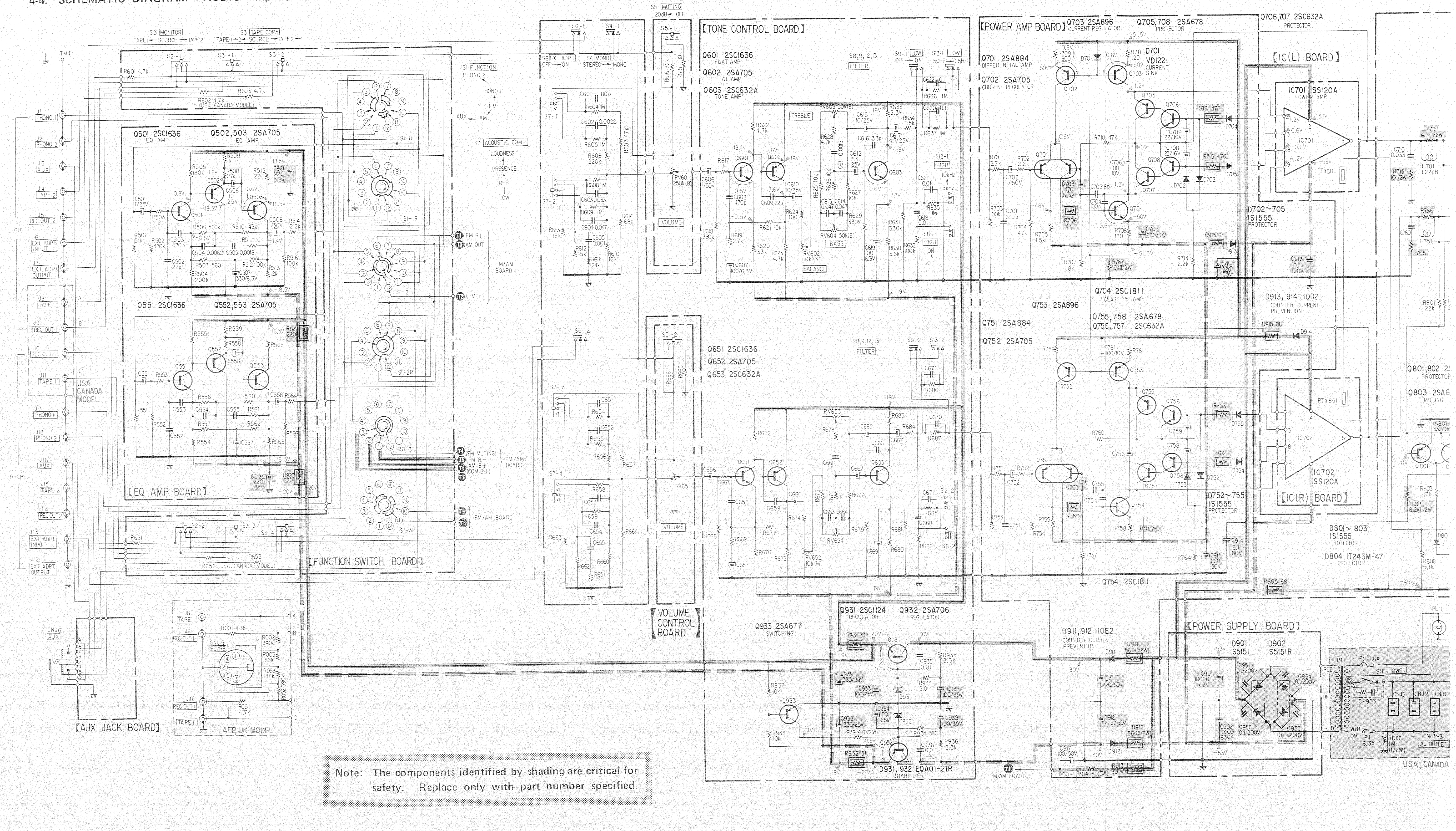
# STR-6800SD STR-6800SD


Q703, 753: 2SA896
Q704, 754: 2SC1811
Q805: 2SC1670
Q931: 2SC1124
Q932: 2SA706
IC701, 702: SS120A
D701: VD1221
D804: 1T243M
D902: S5151R
D901: S5151
D913, 914: 10D2
D931, 932: EQA01-21R
D702～705, 752～755 : 1S1555
D801～803, 805, 806
D911, 912: 10E2
anode
cathode
【IC (R) BOARD】
【HEADPHONES JACK BOARD】
HEADPHONES
【POWER SUPPLY BOARD】
【IC (L) BOARD】
【POWER AMP BOARD】
【FUSE BOARD】
ME CONTROL BOARD】
VOLUME
TM1 SPEAKER A
TM2 SPEAKER B
TM3 SPEAKER C
S10 SPEAKER
AEP, UK MODEL
USA, CANADA MODEL
PX MODEL
DIAL
METER
FM/AM BOARD
PT1 POWER
VOLTAGE SELECTOR
S11 POWER
AC IN
AC OUTLET
FM/AM BOARD
WHT
RED
(RED)(GRY)

Note:

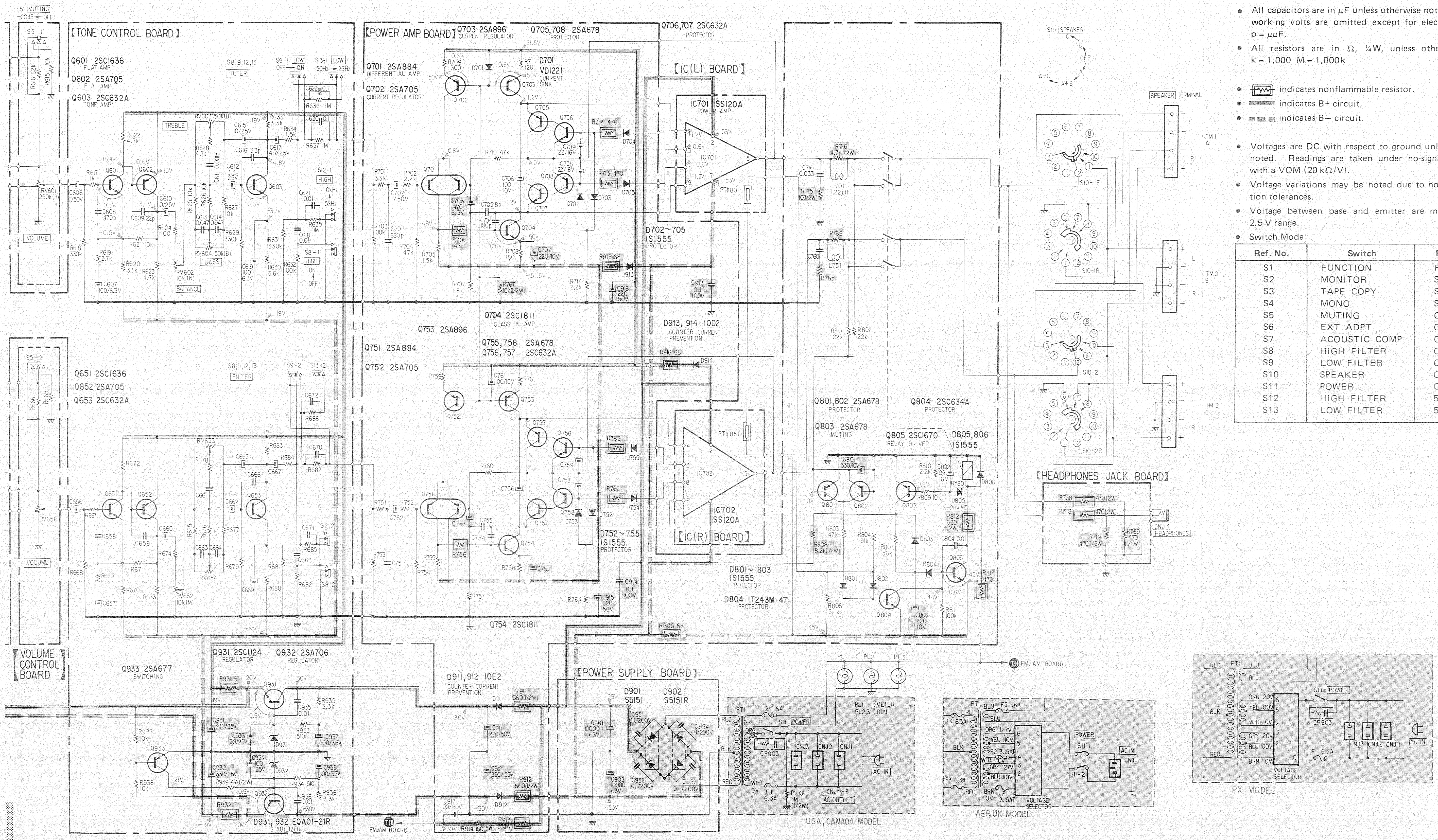
- ▭ : B+ pattern
- ▭ : B− pattern
- ▭ : nonflammable resistor

## 4-4. SCHEMATIC DIAGRAM – AUDIO Amplifier Section –



【EQ AMP BOARD】
Q501 2SC1636 EQ AMP
Q502,503 2SA705 EQ AMP
Q551 2SC1636
Q552,553 2SA705
【AUX JACK BOARD】
AEP,UK MODEL
USA CANADA MODEL
【FUNCTION SWITCH BOARD】
S1 FUNCTION
S2 MONITOR
S3 TAPE COPY
S4 MONO
S5 MUTING
S6 EXT ADPT
S7 ACOUSTIC COMP
LOUDNESS
PRESENCE
OFF
LOW
FM/AM BOARD
【VOLUME CONTROL BOARD】
VOLUME
RV601 250k(B)
【TONE CONTROL BOARD】
Q601 2SC1636 FLAT AMP
Q602 2SA705 FLAT AMP
Q603 2SC632A TONE AMP
Q651 2SC1636
Q652 2SA705
Q653 2SC632A
TREBLE
BASS
BALANCE
FILTER
LOW
HIGH
【POWER AMP BOARD】
Q701 2SA884 DIFFERENTIAL AMP
Q702 2SA705 CURRENT REGULATOR
Q703 2SA896 CURRENT REGULATOR
Q704 2SC1811 CLASS A AMP
Q705,708 2SA678 PROTECTOR
Q706,707 2SC632A PROTECTOR
D701 VD1221 CURRENT SINK
D702~705 1S1555 PROTECTOR
Q751 2SA884
Q752 2SA705
Q753 2SA896
Q754 2SC1811
Q755,758 2SA678
Q756,757 2SC632A
D752~755 1S1555 PROTECTOR
D913, 914 10D2 COUNTER CURRENT PREVENTION
【IC(L) BOARD】
IC701 SS120A POWER AMP
【IC(R) BOARD】
IC702 SS120A
Q801,802
Q803 2SA MUTING
D801~803 1S1555 PROTECTOR
D804 1T243M-47 PROTECTOR
Q931 2SC1124 REGULATOR
Q932 2SA706 REGULATOR
Q933 2SA677 SWITCHING
D931, 932 EQA01-21R STABILIZER
D911,912 10E2 COUNTER CURRENT PREVENTION
【POWER SUPPLY BOARD】
D901 S5151
D902 S5151R
F2 1.6A
S11 POWER
F1 6.3A
AC OUTLET
USA, CANADA
L-CH
R-CH

Note: The components identified by shading are critical for safety. Replace only with part number specified.


S5 MUTING -20dB ← OFF
TONE CONTROL BOARD
Q601 2SC1636 FLAT AMP
Q602 2SA705 FLAT AMP
Q603 2SC632A TONE AMP
S8,9,12,13 FILTER
S9-1 LOW OFF → ON
S13-1 LOW 50Hz → 25Hz
TREBLE
BASS
BALANCE
VOLUME
Q651 2SC1636
Q652 2SA705
Q653 2SC632A
VOLUME CONTROL BOARD
POWER AMP BOARD
Q703 2SA896 CURRENT REGULATOR
Q705,708 2SA678 PROTECTOR
Q706,707 2SC632A PROTECTOR
Q701 2SA884 DIFFERENTIAL AMP
Q702 2SA705 CURRENT REGULATOR
D701 VD1221 CURRENT SINK
Q704 2SC1811 CLASS A AMP
Q753 2SA896
Q751 2SA884
Q752 2SA705
Q755,758 2SA678
Q756,757 2SC632A
Q754 2SC1811
IC(L) BOARD
IC701 SS120A POWER AMP
D702~705 1S1555 PROTECTOR
D913, 914 10D2 COUNTER CURRENT PREVENTION
D752~755 1S1555 PROTECTOR
IC702 SS120A
IC(R) BOARD
Q801,802 2SA678 PROTECTOR
Q803 2SA678 MUTING
Q804 2SC634A PROTECTOR
Q805 2SC1670 RELAY DRIVER
D805,806 1S1555
D801~803 1S1555 PROTECTOR
D804 1T243M-47 PROTECTOR
S10 SPEAKER
SPEAKER TERMINAL
TM1 A
TM2 B
TM3 C
S10-1F
S10-1R
S10-2F
S10-2R
HEADPHONES JACK BOARD
CNJ4 HEADPHONES
Q931 2SC1124 REGULATOR
Q932 2SA706 REGULATOR
Q933 2SA677 SWITCHING
D931, 932 EQA01-21R STABILIZER
D911,912 10E2 COUNTER CURRENT PREVENTION
POWER SUPPLY BOARD
D901 S5151
D902 S5151R
FM/AM BOARD
PL1 PL2 PL3
PL1 :METER
PL2,3 :DIAL
S11 POWER
AC IN
CNJ1~3 AC OUTLET
USA, CANADA MODEL
AEP,UK MODEL
VOLTAGE SELECTOR
PX MODEL

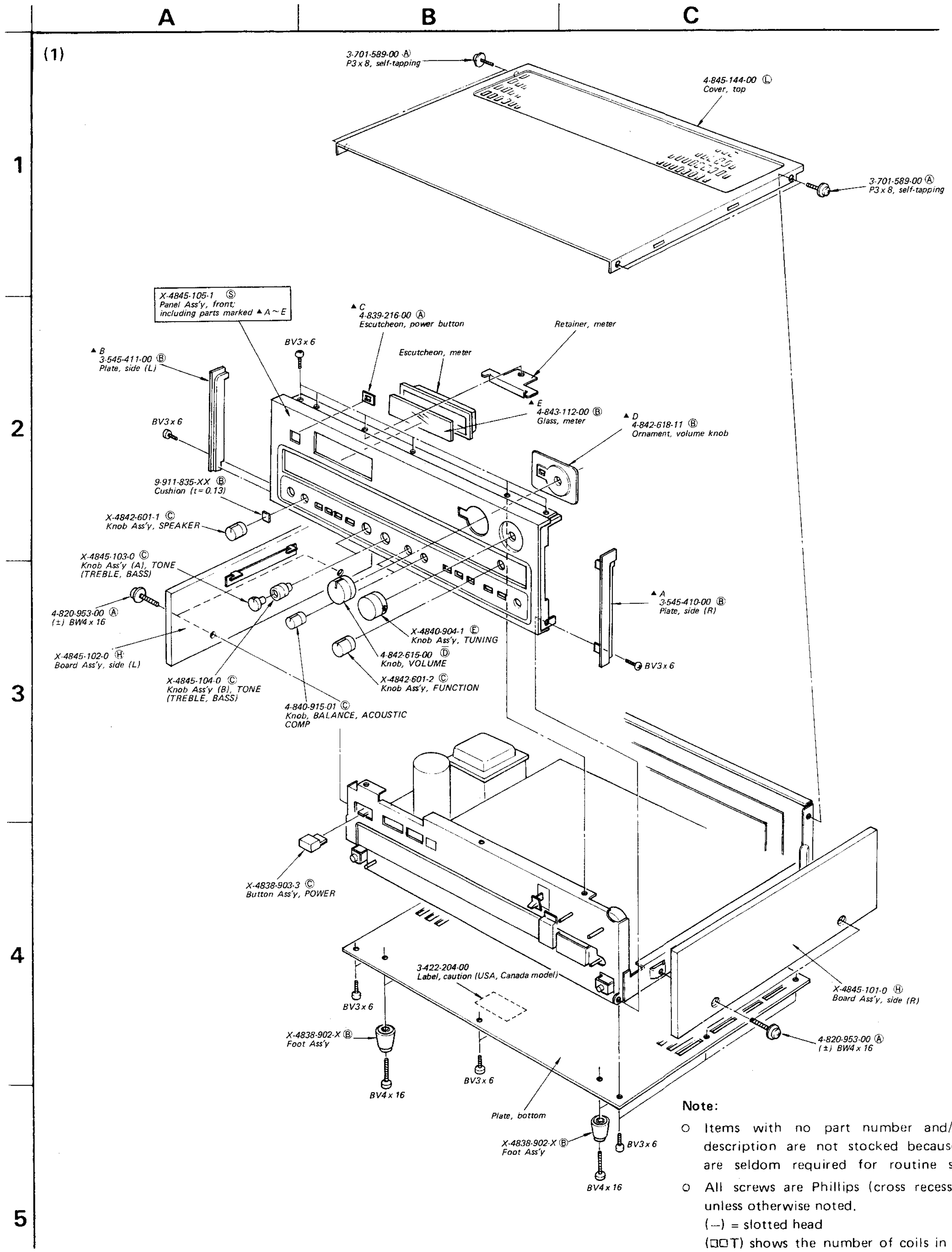
Note:

- All capacitors are in μF unless otherwise noted. 50 or less working volts are omitted except for electrolytic type. p = μμF.
- All resistors are in Ω, ¼W, unless otherwise noted. k = 1,000 M = 1,000k
- ▭ indicates nonflammable resistor.
- ▬ indicates B+ circuit.
- ▪▪▪ indicates B– circuit.
- Voltages are DC with respect to ground unless otherwise noted. Readings are taken under no-signal conditions with a VOM (20 kΩ/V).
- Voltage variations may be noted due to normal production tolerances.
- Voltage between base and emitter are measured with 2.5 V range.
- Switch Mode:

| Ref. No. | Switch | Position |
|---|---|---|
| S1 | FUNCTION | FM |
| S2 | MONITOR | SOURCE |
| S3 | TAPE COPY | SOURCE |
| S4 | MONO | STEREO |
| S5 | MUTING | OFF |
| S6 | EXT ADPT | OFF |
| S7 | ACOUSTIC COMP | OFF |
| S8 | HIGH FILTER | OFF |
| S9 | LOW FILTER | OFF |
| S10 | SPEAKER | OFF |
| S11 | POWER | OFF |
| S12 | HIGH FILTER | 5 kHz |
| S13 | LOW FILTER | 50 Hz |

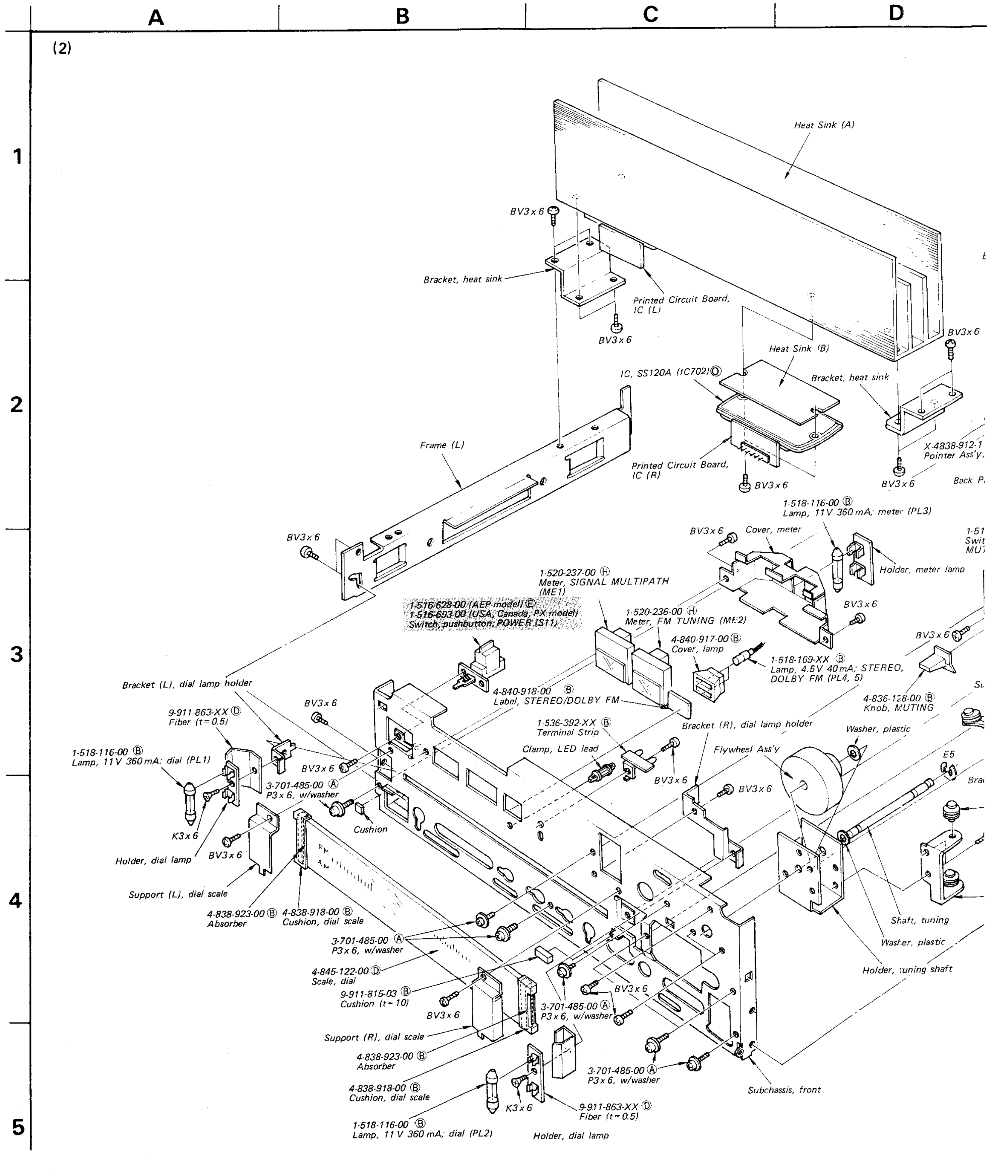
## SECTION 5

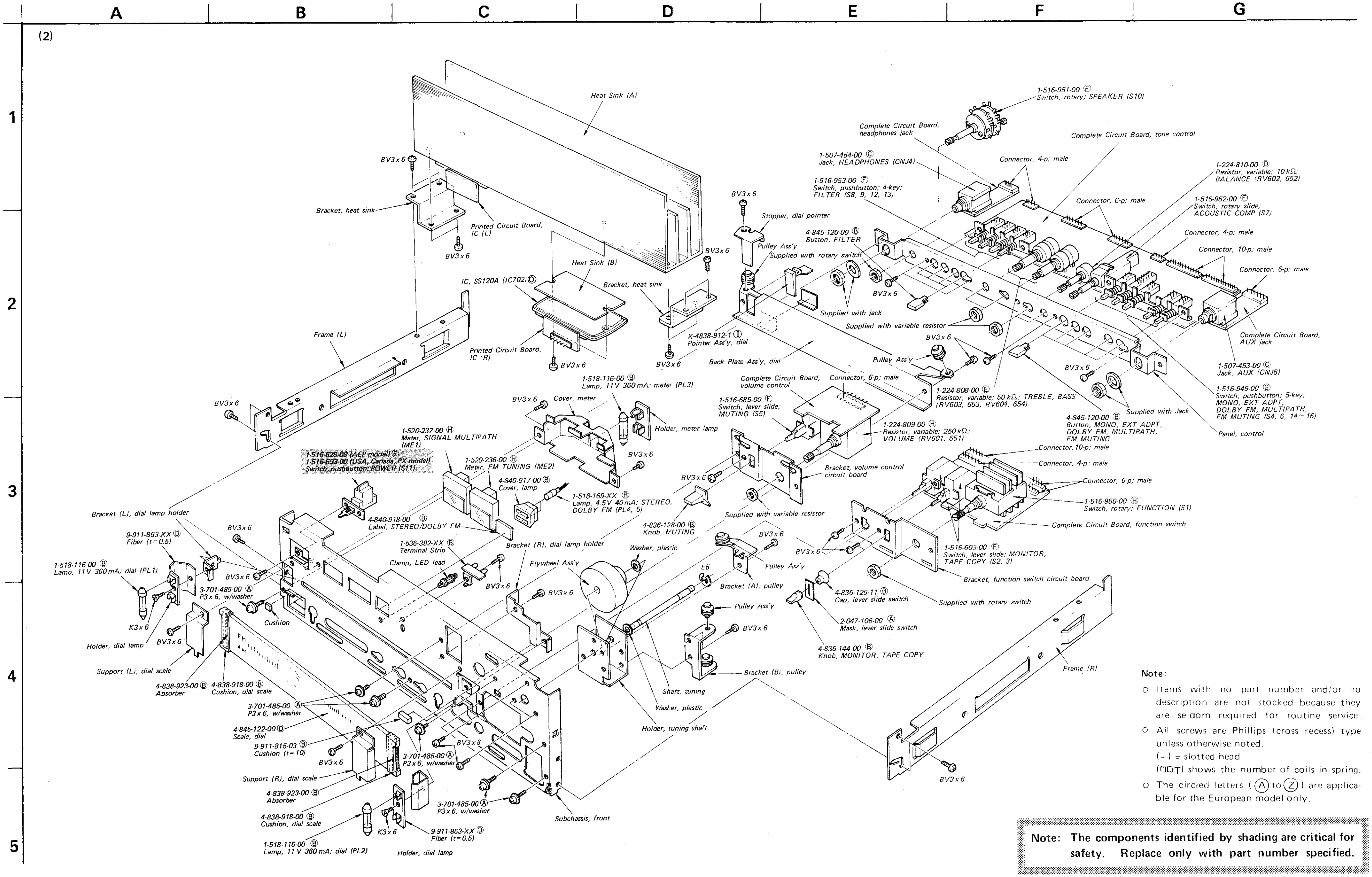
## EXPLODED VIEWS


A
B
C
1
2
3
4
5
(1)
3-701-589-00 Ⓐ
P3 x 8, self-tapping
4-845-144-00 Ⓛ
Cover, top
3-701-589-00 Ⓐ
P3 x 8, self-tapping
X-4845-105-1 Ⓢ
Panel Ass'y, front;
including parts marked ▲A ~ E
▲C
4-839-216-00 Ⓐ
Escutcheon, power button
Retainer, meter
BV3 x 6
Escutcheon, meter
▲B
3-545-411-00 Ⓑ
Plate, side (L)
▲E
4-843-112-00 Ⓑ
Glass, meter
▲D
4-842-618-11 Ⓑ
Ornament, volume knob
BV3 x 6
9-911-835-XX Ⓑ
Cushion (t = 0.13)
X-4842-601-1 Ⓒ
Knob Ass'y, SPEAKER
X-4845-103-0 Ⓒ
Knob Ass'y (A), TONE
(TREBLE, BASS)
4-820-953-00 Ⓐ
(±) BW4 x 16
▲A
3-545-410-00 Ⓑ
Plate, side (R)
X-4840-904-1 Ⓔ
Knob Ass'y, TUNING
X-4845-102-0 Ⓗ
Board Ass'y, side (L)
4-842-615-00 Ⓓ
Knob, VOLUME
BV3 x 6
X-4842-601-2 Ⓒ
Knob Ass'y, FUNCTION
X-4845-104-0 Ⓒ
Knob Ass'y (B), TONE
(TREBLE, BASS)
4-840-915-01 Ⓒ
Knob, BALANCE, ACOUSTIC
COMP
X-4838-903-3 Ⓒ
Button Ass'y, POWER
3-422-204-00
Label, caution (USA, Canada model)
X-4845-101-0 Ⓗ
Board Ass'y, side (R)
BV3 x 6
X-4838-902-X Ⓑ
Foot Ass'y
4-820-953-00 Ⓐ
(±) BW4 x 16
BV3 x 6
BV4 x 16
Plate, bottom
X-4838-902-X Ⓑ
Foot Ass'y
BV3 x 6
BV4 x 16

**Note:**

- ○ Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- ○ All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head
  (□□T) shows the number of coils in spring.
- ○ The circled letters (Ⓐ to Ⓩ) are applicable for the European model only.

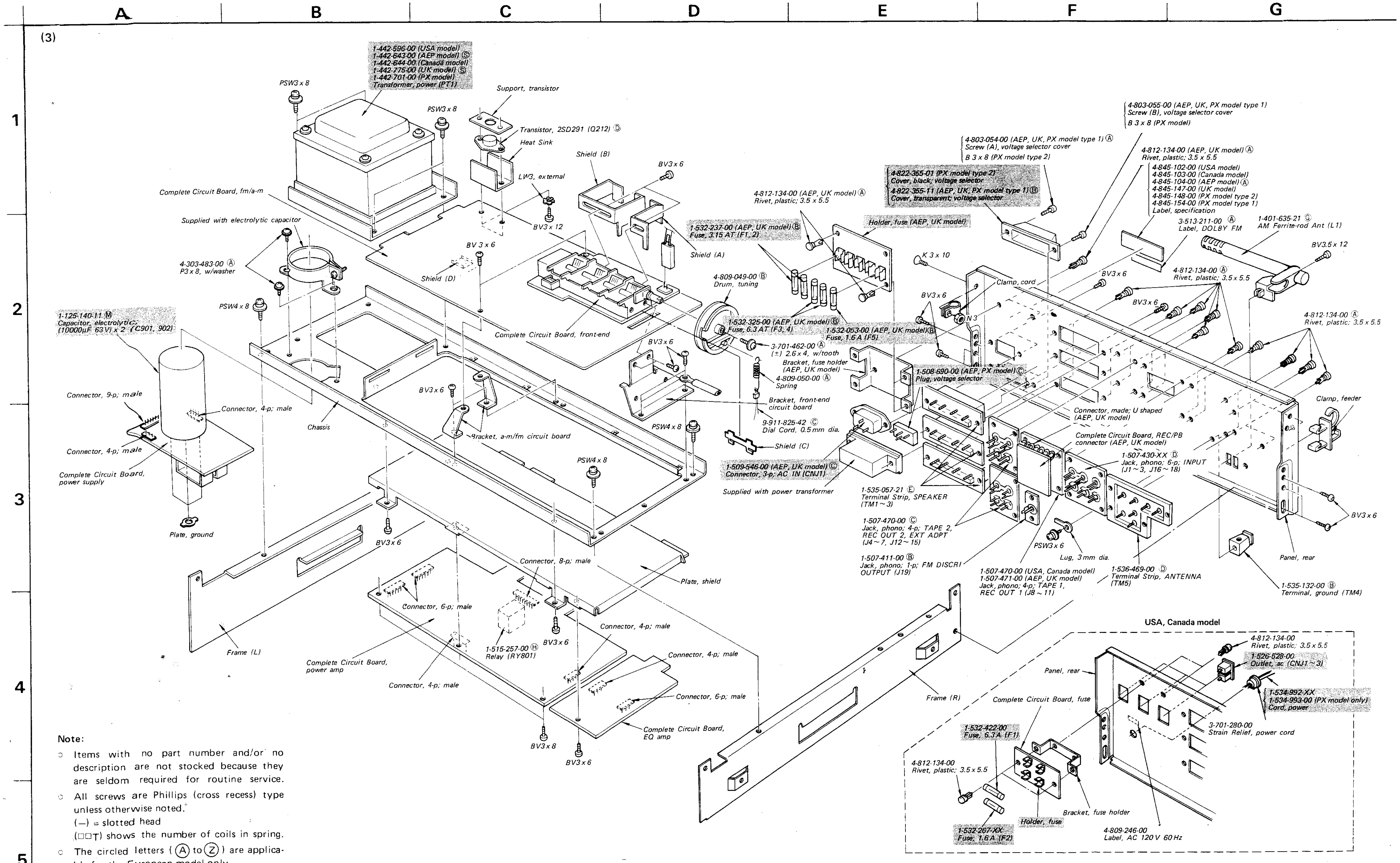

A
B
C
D
1
2
3
4
5
(2)
Heat Sink (A)
BV3 x 6
Bracket, heat sink
Printed Circuit Board,
IC (L)
BV3 x 6
Heat Sink (B)
BV3 x 6
IC, SS120A (IC702) Ⓞ
Bracket, heat sink
Frame (L)
Printed Circuit Board,
IC (R)
BV3 x 6
X-4838-912-1
Pointer Ass'y,
BV3 x 6
Back P
1-518-116-00 Ⓑ
Lamp, 11V 360 mA; meter (PL3)
BV3 x 6
Cover, meter
1-51
Swit
MU
BV3 x 6
Holder, meter lamp
1-520-237-00 Ⓗ
Meter, SIGNAL MULTIPATH
(ME1)
1-516-628-00 (AEP model) Ⓔ
1-516-693-00 (USA, Canada, PX model)
Switch, pushbutton; POWER (S11)
1-520-236-00 Ⓗ
Meter, FM TUNING (ME2)
BV3 x 6
4-840-917-00 Ⓑ
Cover, lamp
BV3 x 6
1-518-169-XX Ⓑ
Lamp, 4.5V 40 mA; STEREO,
DOLBY FM (PL4, 5)
Bracket (L), dial lamp holder
4-840-918-00 Ⓑ
Label, STEREO/DOLBY FM
4-836-128-00 Ⓑ
Knob, MUTING
BV3 x 6
9-911-863-XX Ⓓ
Fiber (t = 0.5)
1-536-392-XX Ⓑ
Terminal Strip
Bracket (R), dial lamp holder
Washer, plastic
Clamp, LED lead
Flywheel Ass'y
1-518-116-00 Ⓑ
Lamp, 11V 360 mA; dial (PL1)
BV3 x 6
E5
BV3 x 6
BV3 x 6
3-701-485-00 Ⓐ
P3 x 6, w/washer
K3 x 6
Cushion
BV3 x 6
Holder, dial lamp
Support (L), dial scale
4-838-923-00 Ⓑ
Absorber
4-838-918-00 Ⓑ
Cushion, dial scale
FM
AM
3-701-485-00 Ⓐ
P3 x 6, w/washer
Shaft, tuning
Washer, plastic
4-845-122-00 Ⓓ
Scale, dial
Holder, tuning shaft
9-911-815-03 Ⓑ
Cushion (t = 10)
BV3 x 6
BV3 x 6
3-701-485-00 Ⓐ
P3 x 6, w/washer
Support (R), dial scale
4-838-923-00 Ⓑ
Absorber
3-701-485-00 Ⓐ
P3 x 6, w/washer
Subchassis, front
4-838-918-00 Ⓑ
Cushion, dial scale
K3 x 6
9-911-863-XX Ⓓ
Fiber (t = 0.5)
1-518-116-00 Ⓑ
Lamp, 11 V 360 mA; dial (PL2)
Holder, dial lamp


A
B
C
D
E
F
G
1
2
3
4
5
(2)
Heat Sink (A)
BV3x6
Bracket, heat sink
Printed Circuit Board, IC (L)
BV3x6
Heat Sink (B)
IC, SS120A (IC702) Ⓓ
Bracket, heat sink
BV3x6
Printed Circuit Board, IC (R)
BV3x6
BV3x6
Frame (L)
BV3x6
1-516-951-00 Ⓕ Switch, rotary; SPEAKER (S10)
Complete Circuit Board, headphones jack
Complete Circuit Board, tone control
1-507-454-00 Ⓒ Jack, HEADPHONES (CNJ4)
Connector, 4-p; male
1-516-953-00 Ⓕ Switch, pushbutton; 4-key; FILTER (S8, 9, 12, 13)
1-224-810-00 Ⓓ Resistor, variable; 10 kΩ; BALANCE (RV602, 652)
BV3x6
Connector, 6-p; male
1-516-952-00 Ⓔ Switch, rotary slide; ACOUSTIC COMP (S7)
Stopper, dial pointer
4-845-120-00 Ⓑ Button, FILTER
Connector, 4-p; male
Pulley Ass'y
Supplied with rotary switch
Connector, 10-p; male
Connector, 6-p; male
BV3x6
Supplied with jack
Supplied with variable resistor
X-4838-912-1 Ⓘ Pointer Ass'y, dial
BV3x6
Complete Circuit Board, AUX jack
BV3x6
Pulley Ass'y
Back Plate Ass'y, dial
1-507-453-00 Ⓒ Jack, AUX (CNJ6)
BV3x6
Complete Circuit Board, volume control
Connector, 6-p; male
1-224-808-00 Ⓔ Resistor, variable; 50 kΩ; TREBLE, BASS (RV603, 653, RV604, 654)
1-516-949-00 Ⓖ Switch, pushbutton; 5-key; MONO, EXT ADPT, DOLBY FM, MULTIPATH, FM MUTING (S4, 6, 14~16)
1-516-685-00 Ⓕ Switch, lever slide; MUTING (S5)
Supplied with Jack
1-518-116-00 Ⓑ Lamp, 11 V 360 mA; meter (PL3)
BV3x6
Cover, meter
Holder, meter lamp
1-224-809-00 Ⓔ Resistor, variable; 250 kΩ; VOLUME (RV601, 651)
4-845-120-00 Ⓑ Button, MONO, EXT ADPT, DOLBY FM, MULTIPATH, FM MUTING
Panel, control
1-520-237-00 Ⓗ Meter, SIGNAL MULTIPATH (ME1)
BV3x6
Connector, 10-p; male
1-516-628-00 (AEP model) Ⓔ
1-516-693-00 (USA, Canada, PX model)
Switch, pushbutton; POWER (S11)
1-520-236-00 Ⓗ Meter, FM TUNING (ME2)
BV3x6
Bracket, volume control circuit board
Connector, 4-p; male
4-840-917-00 Ⓑ Cover, lamp
Connector, 6-p; male
1-518-169-XX Ⓑ Lamp, 4.5V 40 mA; STEREO, DOLBY FM (PL4, 5)
1-516-950-00 Ⓗ Switch, rotary; FUNCTION (S1)
Bracket (L), dial lamp holder
4-840-918-00 Ⓑ Label, STEREO/DOLBY FM
Supplied with variable resistor
Complete Circuit Board, function switch
9-911-863-XX Ⓓ Fiber (t=0.5)
BV3x6
4-836-128-00 Ⓑ Knob, MUTING
1-536-392-XX Ⓑ Terminal Strip
Bracket (R), dial lamp holder
BV3x6
BV3x6
1-516-603-00 Ⓕ Switch, lever slide; MONITOR, TAPE COPY (S2, 3)
Clamp, LED lead
Washer, plastic
1-518-116-00 Ⓑ Lamp, 11 V 360 mA; dial (PL1)
BV3x6
Flywheel Ass'y
Pulley Ass'y
BV3x6
E5
Bracket, function switch circuit board
3-701-485-00 Ⓐ P3x6, w/washer
BV3x6
Bracket (A), pulley
4-836-125-11 Ⓑ Cap, lever slide switch
Supplied with rotary switch
Cushion
Pulley Ass'y
K3x6
BV3x6
2-047-106-00 Ⓐ Mask, lever slide switch
Holder, dial lamp
BV3x6
4-836-144-00 Ⓑ Knob, MONITOR, TAPE COPY
Support (L), dial scale
Bracket (B), pulley
Frame (R)
4-838-923-00 Ⓑ Absorber
4-838-918-00 Ⓑ Cushion, dial scale
Shaft, tuning
3-701-485-00 Ⓐ P3x6, w/washer
Washer, plastic
4-845-122-00 Ⓓ Scale, dial
Holder, tuning shaft
9-911-815-03 Ⓑ Cushion (t=10)
BV3x6
3-701-485-00 Ⓐ P3x6, w/washer
BV3x6
Support (R), dial scale
BV3x6
4-838-923-00 Ⓑ Absorber
3-701-485-00 Ⓐ P3x6, w/washer
4-838-918-00 Ⓑ Cushion, dial scale
Subchassis, front
K3x6
9-911-863-XX Ⓓ Fiber (t=0.5)
1-518-116-00 Ⓑ Lamp, 11 V 360 mA; dial (PL2)
Holder, dial lamp

Note:

- ○ Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- ○ All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head
  (□□T) shows the number of coils in spring.
- ○ The circled letters (Ⓐ to Ⓩ) are applicable for the European model only.

**Note: The components identified by shading are critical for safety. Replace only with part number specified.**


A
B
C
D
E
F
G
1
2
3
4
5
(3)
1-442-596-00 (USA model)
1-442-643-00 (AEP model) Ⓢ
1-442-644-00 (Canada model)
1-442-775-00 (UK model) Ⓢ
1-442-701-00 (PX model)
Transformer, power (PT1)
PSW3 x 8
PSW3 x 8
Support, transistor
Transistor, 2SD291 (Q212) Ⓓ
Heat Sink
Shield (B)
BV3 x 6
LW3, external
BV3 x 12
Complete Circuit Board, fm/a-m
Supplied with electrolytic capacitor
4-303-483-00 Ⓐ
P3 x 8, w/washer
BV 3 x 6
Shield (D)
PSW4 x 8
1-125-140-11 Ⓜ
Capacitor, electrolytic;
(10000μF 63V) x 2 (C901, 902)
Complete Circuit Board, front-end
BV3 x 6
BV3 x 6
Connector, 9-p; male
Connector, 4-p; male
Chassis
Bracket, a-m/fm circuit board
Connector, 4-p; male
Complete Circuit Board, power supply
PSW4 x 8
PSW4 x 8
Plate, ground
BV3 x 6
Connector, 8-p; male
Plate, shield
Connector, 6-p; male
1-515-257-00 Ⓗ
Relay (RY801)
BV3 x 6
Connector, 4-p; male
Frame (L)
Complete Circuit Board, power amp
Connector, 4-p; male
Connector, 4-p; male
Connector, 6-p; male
Complete Circuit Board, EQ amp
BV3 x 8
BV3 x 6
4-812-134-00 (AEP, UK model) Ⓐ
Rivet, plastic; 3.5 x 5.5
1-532-237-00 (AEP, UK model) Ⓑ
Fuse, 3.15 AT (F1, 2)
Shield (A)
Holder, fuse (AEP, UK model)
4-809-049-00 Ⓑ
Drum, tuning
1-532-325-00 (AEP, UK model) Ⓑ
Fuse, 6.3 AT (F3, 4)
1-532-053-00 (AEP, UK model) Ⓑ
Fuse, 1.6 A (F5)
3-701-462-00 Ⓐ
(±) 2.6 x 4, w/tooth
Bracket, fuse holder
(AEP, UK model)
4-809-050-00 Ⓐ
Spring
Bracket, front-end circuit board
9-911-825-42 Ⓒ
Dial Cord, 0.5 mm dia.
Shield (C)
1-509-546-00 (AEP, UK model) Ⓒ
Connector, 3-p; AC IN (CNJ1)
Supplied with power transformer
4-803-054-00 (AEP, UK, PX model type 1) Ⓐ
Screw (A), voltage selector cover
B 3 x 8 (PX model type 2)
4-822-355-01 (PX model type 2)
Cover, black; voltage selector
4-822-355-11 (AEP, UK, PX model type 1) Ⓑ
Cover, transparent; voltage selector
4-803-055-00 (AEP, UK, PX model type 1)
Screw (B), voltage selector cover
B 3 x 8 (PX model)
4-812-134-00 (AEP, UK model) Ⓐ
Rivet, plastic; 3.5 x 5.5
4-845-102-00 (USA model)
4-845-103-00 (Canada model)
4-845-104-00 (AEP model) Ⓐ
4-845-147-00 (UK model)
4-845-148-00 (PX model type 2)
4-845-154-00 (PX model type 1)
Label, specification
3-513-211-00 Ⓐ
Label, DOLBY FM
1-401-635-21 Ⓖ
AM Ferrite-rod Ant (L1)
BV3.5 x 12
K 3 x 10
Clamp, cord
BV3 x 6
BV3 x 6
BV3 x 6
N 3
4-812-134-00 Ⓐ
Rivet, plastic; 3.5 x 5.5
4-812-134-00 Ⓐ
Rivet, plastic; 3.5 x 5.5
1-508-690-00 (AEP, PX model) Ⓒ
Plug, voltage selector
Clamp, feeder
Connector, made; U shaped
(AEP, UK model)
Complete Circuit Board, REC/PB connector (AEP, UK model)
1-507-430-XX Ⓓ
Jack, phono; 6-p; INPUT
(J1 ~ 3, J16 ~ 18)
1-535-057-21 Ⓔ
Terminal Strip, SPEAKER
(TM1 ~ 3)
BV3 x 6
1-507-470-00 Ⓒ
Jack, phono; 4-p; TAPE 2,
REC OUT 2, EXT ADPT
(J4 ~ 7, J12 ~ 15)
PSW3 x 6
Lug, 3mm dia.
Panel, rear
1-507-411-00 Ⓑ
Jack, phono; 1-p; FM DISCRI
OUTPUT (J19)
1-507-470-00 (USA, Canada model)
1-507-471-00 (AEP, UK model)
Jack, phono; 4-p; TAPE 1,
REC OUT 1 (J8 ~ 11)
1-536-469-00 Ⓓ
Terminal Strip, ANTENNA
(TM5)
1-535-132-00 Ⓑ
Terminal, ground (TM4)
Frame (R)
USA, Canada model
4-812-134-00
Rivet, plastic; 3.5 x 5.5
1-526-528-00
Outlet, ac (CNJ1 ~ 3)
Panel, rear
1-534-992-XX
1-534-993-00 (PX model only)
Cord, power
Complete Circuit Board, fuse
3-701-280-00
Strain Relief, power cord
1-532-422-00
Fuse, 6.3 A (F1)
4-812-134-00
Rivet, plastic; 3.5 x 5.5
Bracket, fuse holder
Holder, fuse
1-532-267-XX
Fuse, 1.6 A (F2)
4-809-246-00
Label, AC 120 V 60 Hz

Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (−) = slotted head
  (□□T) shows the number of coils in spring.
- The circled letters (Ⓐ to Ⓩ) are applicable for the European model only.

**Note: The components identified by shading are critical for safety. Replace only with part number specified.**

# SECTION 6
# ELECTRICAL PARTS LIST

**Note:** The circled letters (Ⓐ to Ⓩ) are applicable for the European model only.

### SEMICONDUCTORS

#### Transistors

| *Ref. No.* | *Part No.* | *Description* |
|---|---|---|
| Q101 | | Ⓔ 3SK37 |
| Q102 | | Ⓒ 2SK23A |
| Q103, 104 | | Ⓑ 2SC710 |
| Q105 | | Ⓒ 2SK23A |
| Q106 | | Ⓑ 2SC710 |
| Q201 ~ 203 | | Ⓑ 2SC710 |
| Q204, 205 | | Ⓑ 2SC945 |
| ⇒Q206 | | Ⓑ 2SC632A |
| Q207 | | Ⓑ 2SC945 |
| ⇒Q208 | | Ⓒ 2SA678 |
| Q209 | | Ⓑ 2SC945 |
| ⇒Q210, 211 | | Ⓑ 2SC632A |
| Q212 | | Ⓓ 2SD291 |
| Q213 ~ 215 | | Ⓑ 2SC945 |
| ⇒Q301, 351 | | Ⓑ 2SC632A |
| Q401 ~ 404 | | Ⓑ 2SC403C |
| Q405, 406 | | Ⓑ 2SC710 |
| Q501, 551 | | Ⓑ 2SC1636 |
| Q502, 552<br>Q503, 553 | | Ⓑ 2SA705 |
| Q601, 651 | | Ⓑ 2SC1636 |
| Q602, 652 | | Ⓑ 2SA705 |
| Q603, 653 | | Ⓑ 2SC632A |
| Q604 | | Ⓒ 2SA678 |
| Q701, 751 | | Ⓓ 2SA884 |
| Q702, 752 | | Ⓑ 2SA705 |
| Q703, 753 | | Ⓒ 2SA896 |
| Q704, 754 | | Ⓒ 2SC1811 |
| ⇒Q705, 755 | | Ⓒ 2SA678 |
| ⇒Q706, 756<br>Q707, 757 | | Ⓑ 2SC634A |
| ⇒Q708, 758 | | Ⓒ 2SA678 |
| ⇒Q801~803 | | Ⓒ 2SA678 |
| ⇒Q804 | | Ⓑ 2SC634A |
| Q805 | | Ⓒ 2SC1670 |
| Q931 | | Ⓔ 2SC1124 |
| Q932 | | Ⓓ 2SA706 |
| Q933 | | Ⓒ 2SA678 |

#### ICs

| *Ref. No.* | *Part No.* | *Description* |
|---|---|---|
| IC201 | | Ⓗ HA1137W |
| IC202 | | Ⓙ HA1156 |
| IC301, 351 | | Ⓘ CX064 |
| IC701, 702 | | Ⓞ SS120A |
| D1-1, 1-2 | | Ⓗ TX312 |
| D101 | | Ⓑ 1S2687 |
| D201 | | Ⓑ 1T22A |
| ⇒D202 ~ 204 | | Ⓑ 1S1555 |
| D205 | | Ⓑ MV203V |
| D206 | | Ⓑ EQA01-16R |
| D207, 208 | | Ⓑ 10E2 |
| ⇒D401, 402 | | Ⓑ 1S1555 |
| D403, 404 | | Ⓑ 1T22A |
| D701 | | Ⓑ VD1221 |
| D702 ~ 705<br>D752 ~ 755 | | Ⓑ 1S1555 |
| D801 ~ 803 | | Ⓑ 1S1555 |
| D804 | | Ⓑ 1T243M |
| D805, 806 | | Ⓑ 1S1555 |
| D901 | | Ⓕ S5151 |
| D902 | | Ⓕ S5151R |
| D911, 912 | | Ⓑ 10E2 |
| D913, 914 | | Ⓑ 10D2 |
| ⇒ D931, 932 | | Ⓑ EQB01-21 |

#### THERMISTOR

| *Ref. No.* | *Part No.* | *Description* |
|---|---|---|
| Pth801, 851 | 1-800-427-21 | Ⓑ Positive |

⇒: Due to replacement parts, the descriptions are different from the diagrams.

**Note: The components identified by shading are critical for safety. Replace only with part number specified.**

**Note:** The circled letters (Ⓐ to Ⓩ) are applicable for the European model only.

### COILS

| *Ref. No.* | *Part No.* | *Description* |
|---|---|---|
| L1 | 1-401-635-21 | Ⓖ AM Ferrite-rod Antenna |
| L101 | 1-401-662-00 | Ⓑ FM Ant |
| L102 | 1-425-925-00 | Ⓑ FM RF |
| L103 | 1-425-926-00 | Ⓑ FM RF |
| L104 | 1-407-172-XX | Ⓐ Microinductor, 180 μH |
| L201 | 1-459-152-00 | Ⓑ 18 μH |
| L202 | 1-407-160-XX | Ⓐ Microinductor, 18 μH |
| L203 | 1-407-172-XX | Ⓐ Microinductor, 180 μH |
| L401 | 1-407-169-XX | Ⓐ Microinductor, 100 μH |
| L402 | 1-405-656-00 | Ⓑ AM Osc |
| L403 | 1-407-182-XX | Ⓐ Microinductor, 2.2 μH |
| L404 | 1-407-178-XX | Ⓐ Microinductor, 1 μH |
| L405 | 1-407-182-XX | Ⓐ Microinductor, 2.2 μH |
| L701, 751 | 1-420-838-00 | Ⓐ 1.2 μH |

### TRANSFORMERS

| *Ref. No.* | *Part No.* | *Description* |
|---|---|---|
| B1 | 1-417-014-31 | Ⓑ Balun |
| IFT101 | 1-403-295-12 | Ⓑ FM IFT |
| IFT201 | 1-404-029-00 | Ⓒ FM Discriminator |
| IFT401 | 1-404-014-11<br>1-404-014-21 | AM IFT (USA, Canada models)<br>Ⓓ AM IFT (AEP model) |
| IFT402 | 1-403-149-00 | Ⓑ AM IFT |
| PT1 | 1-442-596-00<br>※1-442-643-00<br>※1-442-775-00<br>1-442-644-00<br>※1-442-701-00 | Power (USA model)<br>Ⓢ Power (AEP model)<br>Ⓢ Power (UK model)<br>Power (Canada model)<br>Power (PX model) |

**Note:** ※ Including voltage selector.

### FILTERS

| *Ref. No.* | *Part No.* | *Description* |
|---|---|---|
| CF201, 202 | 1-527-248-XX | Ⓗ Ceramic |
| LPF201 | 1-231-219-00 | Ⓓ Low-pass |

### CAPACITORS

All capacitors are in μF and of electrolytic unless otherwise noted. 50 and/or less working voltages are not indicated except for electrolytic type. (p = μμF)

| *Ref. No.* | *Part No.* | *Description* | | |
|---|---|---|---|---|
| C101 | 1-101-981-11 | Ⓐ 20 p | | ceramic |
| C102 | 1-102-257-11 | Ⓐ 0.0022 | | ceramic |
| C103 | 1-101-924-11 | Ⓐ 0.022 | | ceramic |
| C104 | 1-101-981-11 | Ⓐ 20 p | | ceramic |
| C105 | 1-101-924-11 | Ⓐ 0.022 | | ceramic |
| C106 | 1-102-864-11 | Ⓐ 5 p | | ceramic |
| C107 | 1-101-924-11 | Ⓐ 0.022 | | ceramic |
| C108 | 1-102-642-11 | Ⓐ 24 p | | ceramic |
| C109 | 1-101-924-11 | Ⓐ 0.022 | | ceramic |
| C110 | 1-101-919-11 | Ⓐ 0.0022 | | ceramic |
| C111 | 1-101-924-11 | Ⓐ 0.022 | | ceramic |
| C112 | 1-102-848-11 | Ⓐ 180 p | | ceramic |
| C113 | 1-101-924-11 | Ⓐ 0.022 | | ceramic |
| C114 | 1-101-919-11 | Ⓐ 0.0022 | | ceramic |
| C116, 117 | 1-101-924-11 | Ⓐ 0.022 | | ceramic |
| C118 | 1-102-502-11 | Ⓐ 2 p | | ceramic |
| C119 | | Ⓐ | | |
| C120, 121 | 1-101-924-11 | Ⓐ 0.022 | | ceramic |
| C122 | 1-102-503-11 | Ⓐ 3 p | | ceramic |
| C123 | 1-101-924-11 | Ⓐ 0.022 | | ceramic |
| C201 | 1-121-415-11 | Ⓑ 100 | 16 V | |
| C202 ~ 204 | 1-101-924-11 | Ⓐ 0.022 | | ceramic |
| C205 | 1-101-974-11 | Ⓐ 20 p | | ceramic |
| C206 | 1-101-924-11 | Ⓐ 0.022 | | ceramic |
| C208 | 1-108-251-12 | Ⓑ 0.1 | | mylar |
| C209 | 1-101-925-11 | Ⓐ 0.047 | | ceramic |
| C210 | 1-121-450-11 | Ⓐ 2.2 | 50 V | |
| C211 | 1-101-924-11 | Ⓐ 0.022 | | ceramic |
| C212 | 1-121-726-11 | Ⓐ 0.47 | 50 V | |
| C213 | 1-101-925-11 | Ⓐ 0.047 | | ceramic |
| C214 | 1-121-726-11 | Ⓐ 0.47 | 50 V | |
| C215 | 1-101-884-11 | Ⓐ 56 p | | ceramic |
| C216 | 1-121-726-11 | Ⓐ 0.47 | 50 V | |
| C217 | 1-101-924-11 | Ⓐ 0.022 | | ceramic |
| C218 | 1-121-415-11 | Ⓑ 100 | 16 V | |
| C219 | 1-101-925-11 | Ⓐ 0.047 | | ceramic |
| C220 | 1-121-651-11 | Ⓐ 10 | 16 V | |
| C221 | 1-121-726-11 | Ⓐ 0.47 | 50 V | |
| C222 | 1-121-651-11 | Ⓐ 10 | 16 V | |

**Note: The components identified by shading are critical for safety. Replace only with part number specified.**

**Note:** The circled letters (Ⓐ to Ⓩ) are applicable for the European model only.

| *Ref. No.* | *Part No.* | *Description* | | |
|---|---|---|---|---|
| C223 | 1-101-924-11 | Ⓐ 0.022 | | ceramic |
| C224, 225 | 1-121-651-11 | Ⓐ 10 | 16 V | |
| C226 | 1-131-209-11 | Ⓑ 0.1 | 35 V | tantalum |
| C227 | 1-121-391-11 | Ⓐ 1 | 50 V | |
| C228 | 1-123-068-11 | Ⓑ 220 | 16 V | |
| C229 | 1-121-391-11 | Ⓐ 1 | 50 V | |
| C230 | 1-121-651-11 | Ⓐ 10 | 16 V | |
| C231, 232 | 1-121-395-11 | Ⓐ 4.7 | 25 V | |
| C233 | 1-103-717-11 | Ⓐ 470 p | | polystyrol |
| C234 | 1-121-726-11 | Ⓐ 0.47 | 50 V | |
| C235 | 1-108-246-12 | Ⓐ 0.047 | | mylar |
| C236 | 1-123-068-11 | Ⓑ 220 | 16 V | |
| C237 | 1-131-209-11 | Ⓑ 0.1 | 35 V | tantalum |
| C238, 239 | 1-108-569-12 | Ⓑ 0.0039 | | mylar |
| C240 | 1-121-726-11 | Ⓐ 0.47 | 50 V | |
| C241, 242 | 1-108-571-12 | Ⓐ 0.0047 | | mylar |
| C243, 244 | 1-108-567-12 | Ⓐ 0.0033 | | mylar |
| C245 | 1-121-415-11 | Ⓑ 100 | 16 V | |
| C246, 247 | 1-131-212-11 | Ⓑ 0.33 | 35 V | tantalum |
| C248, 249 | 1-101-884-11 | Ⓐ 56 p | | ceramic |
| C250, 251 | 1-121-651-11 | Ⓐ 10 | 16 V | |
| C252 | 1-123-068-11 | Ⓑ 220 | 16 V | |
| C253 | 1-121-935-11 | Ⓑ 100 | 25 V | |
| C254 | 1-121-939-11 | Ⓑ 470 | 16 V | |
| C255 | 1-108-228-12 | Ⓐ 0.0015 | | mylar |
| C256, 257 | 1-102-732-11 | Ⓐ 75 p | | ceramic |
| C258 | 1-101-888-11 | Ⓐ 68 p | | ceramic |
| C301, 351 | 1-121-912-11 | Ⓐ 1 | 50 V | |
| C302, 352 | 1-121-651-11 | Ⓐ 10 | 16 V | |
| C303, 353 | 1-102-947-11 | Ⓐ 10 p | | ceramic |
| C305, 355 | 1-131-198-11 | Ⓑ 6.8 | 16 V | tantalum |
| C307, 357 | 1-121-352-11 | Ⓐ 47 | 10 V | |
| C308, 358 | 1-121-912-11 | Ⓐ 1 | 50 V | |
| C309, 359 | 1-108-244-12 | Ⓐ 0.033 | | mylar |
| C310, 360 | 1-108-603-12 | Ⓑ 0.1 | | mylar |
| C311, 361 | 1-131-217-11 | Ⓑ 2.2 | 35 V | tantalum |
| C312, 362 | 1-108-585-12 | Ⓑ 0.018 | | mylar |
| C313, 363 | 1-108-587-12 | Ⓐ 0.022 | | mylar |

| *Ref. No.* | *Part No.* | *Description* | | |
|---|---|---|---|---|
| C314, 364 | 1-121-912-11 | Ⓐ 1 | 50 V | |
| C315, 365 | 1-121-395-11 | Ⓐ 4.7 | 25 V | |
| C316, 366 | 1-108-230-12 | Ⓐ 0.0022 | | mylar |
| C317, 318 | 1-121-415-11 | Ⓑ 100 | 16 V | |
| C401 ~ 403 | 1-101-924-11 | Ⓐ 0.022 | | ceramic |
| C405, 406 | 1-101-924-11 | Ⓐ 0.022 | | ceramic |
| C407 | 1-121-479-11 | Ⓐ 22 | 16 V | |
| C408 | 1-101-924-11 | Ⓐ 0.022 | | ceramic |
| C409 | 1-121-450-11 | Ⓐ 2.2 | 50 V | |
| C410 | 1-101-924-11 | Ⓐ 0.022 | | ceramic |
| C411 | 1-121-450-11 | Ⓐ 2.2 | 50 V | |
| C412, 413 | 1-101-924-11 | Ⓐ 0.022 | | ceramic |
| C414 | 1-121-352-11 | Ⓐ 47 | 10 V | |
| C415 | 1-101-924-11 | Ⓐ 0.022 | | ceramic |
| C416 | 1-121-415-11 | Ⓑ 100 | 16 V | |
| C417 | 1-108-227-12 | Ⓐ 0.001 | | mylar |
| C418 | 1-108-355-12 | Ⓐ 0.0056 | | mylar |
| C419 | 1-108-239-12 | Ⓐ 0.01 | | mylar |
| C420 | 1-108-249-12 | Ⓐ 0.068 | | mylar |
| C421 | 1-121-413-11 | Ⓐ 100 | 6.3 V | |
| C422 | 1-102-953-11 | Ⓐ 18 p | | ceramic |
| C423 | 1-103-714-11 | Ⓐ 360 p | | polystyrol |
| C424 | 1-101-924-11 | Ⓐ 0.022 | | ceramic |
| C425 | 1-108-239-12 | Ⓐ 0.01 | | mylar |
| C426 | 1-101-924-11 | Ⓐ 0.022 | | ceramic |
| C427 | 1-121-409-11 | Ⓐ 47 | 16 V | |
| C501, 551 | 1-131-236-11 | Ⓑ 1 | 25 V | tantalum |
| C502, 552 | 1-102-959-11 | Ⓐ 22 p | | ceramic |
| C503, 553 | 1-102-114-11 | Ⓐ 470 p | | ceramic |
| C504, 554 | 1-108-574-12 | Ⓐ 0.0062 | | mylar |
| C505, 555 | 1-108-561-12 | Ⓑ 0.0018 | | mylar |
| C506, 556 | 1-121-398-11 | Ⓐ 10 | 25 V | |
| C507, 557 | 1-121-751-11 | Ⓑ 330 | 6.3 V | |
| C508, 558 | 1-121-912-11 | Ⓐ 1 | 50 V | |
| C601, 651 | 1-102-976-11 | Ⓐ 180 p | | ceramic |
| C602, 652 | 1-108-230-12 | Ⓐ 0.0022 | | mylar |
| C603, 653 | 1-108-244-12 | Ⓐ 0.033 | | mylar |
| C604, 654 | 1-108-246-12 | Ⓐ 0.047 | | mylar |

**Note:** The circled letters (Ⓐ to Ⓩ) are applicable for the European model only.

| *Ref. No.* | *Part No.* | *Description* | | |
|---|---|---|---|---|
| C605, 655 | 1-108-227-12 | Ⓐ 0.001 | | mylar |
| C606, 656 | 1-121-912-11 | Ⓐ 1 | 50 V | |
| C607, 657 | 1-121-413-11 | Ⓐ 100 | 6.3 V | |
| C608, 658 | 1-102-114-11 | Ⓐ 470 p | | ceramic |
| C609, 659 | 1-102-959-11 | Ⓐ 22 p | | ceramic |
| C610, 660 | 1-121-748-11 | Ⓐ 10 | 25 V | |
| C611, 661 | 1-108-228-12 | Ⓐ 0.0015 | | mylar |
| C612, 662 | 1-121-913-11 | Ⓐ 3.3 | 25 V | |
| C613, 663<br>C614, 664 | 1-108-246-12 | Ⓐ 0.047 | | mylar |
| C615, 665 | 1-121-748-11 | Ⓐ 10 | 25 V | |
| C616, 666 | 1-102-963-11 | Ⓐ 33 p | | ceramic |
| C617, 667 | 1-121-915-11 | Ⓐ 4.7 | 25 V | |
| C618, 668 | 1-108-579-12 | Ⓐ 0.01 | | mylar |
| C619, 669 | 1-121-413-11 | Ⓐ 100 | 6.3 V | |
| C620, 670 | 1-108-603-12 | Ⓑ 0.1 | | mylar |
| C621, 671 | 1-108-579-12 | Ⓐ 0.01 | | mylar |
| C622, 672 | 1-108-603-12 | Ⓑ 0.1 | | mylar |
| C641 | 1-121-651-11 | Ⓐ 10 | 16 V | |
| C701, 751 | 1-102-116-11 | Ⓐ 680 p | | ceramic |
| C702, 752 | 1-121-912-11 | Ⓐ 1 | 50 V | |
| C703, 753 | 1-123-077-11 | Ⓑ 470 | 6.3 V | |
| C704, 754 | 1-102-973-11 | Ⓐ 100 p | | ceramic |
| C705, 755 | 1-102-945-11 | Ⓐ 8 p | | ceramic |
| C706, 756 | 1-121-414-11 | Ⓐ 100 | 10 V | |
| C707, 757 | 1-123-072-11 | Ⓑ 220 | 10 V | |
| C708, 758<br>C709, 759 | 1-121-479-11 | Ⓐ 22 | 16 V | |
| C710, 760 | 1-108-244-12 | Ⓐ 0.033 | | mylar |
| C761 | 1-121-414-11 | Ⓐ 100 | 10 V | |
| C801 | 1-123-073-11 | Ⓑ 330 | 10 V | |
| C802 | 1-121-479-11 | Ⓐ 22 | 16 V | |
| C803 | 1-123-072-11 | Ⓑ 220 | 10 V | |
| C804 | 1-101-004-11 | Ⓐ 0.01 | | ceramic |
| C901, 902 | 1-125-140-11 | Ⓜ 10,000 | 63 V | |
| C911, 912 | 1-121-937-11 | Ⓑ 220 | 50 V | |
| C913, 914 | 1-108-389-12 | Ⓑ 0.1 | 100 V | mylar |
| C915, 916 | 1-121-937-11 | Ⓑ 220 | 50 V | |

| *Ref. No.* | *Part No.* | *Description* | | |
|---|---|---|---|---|
| C917 | 1-123-059-11 | Ⓑ 100 | 50 V | |
| C921, 922 | 1-121-936-11 | Ⓑ 220 | 25 V | |
| C931, 932 | 1-123-065-11 | Ⓑ 330 | 25 V | |
| C933, 934 | 1-121-935-11 | Ⓑ 100 | 25 V | |
| C935, 936 | 1-102-129-11 | Ⓐ 0.01 | | ceramic |
| C937, 938 | 1-123-062-11 | Ⓑ 100 | 35 V | |
| C951 ~ 954 | 1-106-505-12 | Ⓑ 0.1 | 200 V | mylar |
| CT401, 402 | 1-141-147-XX | Ⓑ Trimmer | | |

### RESISTORS

All resistors are in ohms. Regular-type ¼ W carbon resistors are omitted.

Check the schematic diagram for the resistance values.

(k = 1000, M = 1000 k)

| | | | | | |
|---|---|---|---|---|---|
| R203 | 1-211-498-11 | Ⓐ 10 | | ¼W | carbon (nonflammable) |
| R216 | 1-211-524-11 | Ⓐ 120 | | ¼W | carbon (nonflammable) |
| R263 | 1-211-522-11 | Ⓐ 100 | | ¼W | carbon (nonflammable) |
| R269 | 1-202-552-11 | Ⓐ 130 | | ½W | composition |
| R271 | 1-217-379-11 | Ⓑ 2.2 | | ¼W | fusible (nonflammable) |
| R272 | 1-211-522-11 | Ⓐ 100 | | ¼W | carbon (nonflammable) |
| R316, 366 | 1-210-871-11 | Ⓐ 3.6 k | ±2% | ¼W | carbon |
| R320, 370 | 1-210-873-11 | Ⓐ 430 | ±2% | ¼W | carbon |
| R321, 371 | 1-210-851-11 | Ⓐ 910 | ±2% | ¼W | carbon |
| R324, 374 | 1-211-529-11 | Ⓐ 200 | | ¼W | carbon (nonflammable) |
| R416, 420 | 1-211-522-11 | Ⓐ 100 | | ¼W | carbon (nonflammable) |
| R712, 762<br>R713, 763 | 1-211-538-11 | Ⓐ 470 | | ¼W | carbon (nonflammable) |
| R706, 756 | 1-211-514-11 | Ⓐ 47 | | ¼W | carbon (nonflammable) |
| R715, 765 | 1-202-525-11 | Ⓐ 10 | | ½W | composition |
| R716, 766 | 1-202-517-11 | Ⓐ 4.7 | | ½W | composition |

**Note: The components identified by shading are critical for safety. Replace only with part number specified.**

**Note:** The circled letters (Ⓐ to Ⓩ) are applicable for the European model only.

| Ref. No. | Part No. | Description |
|---|---|---|
| R718, 768<br>R719, 769 | 1-202-565-11 | Ⓐ 470 ½W composition |
| R767 | 1-202-597-11 | Ⓐ 10 k ½W composition |
| R805 | 1-211-518-11 | Ⓐ 68 ¼W carbon (nonflammable) |
| R808 | 1-202-595-11 | Ⓐ 8.2 k ½W composition |
| R812 | 1-206-659-11 | Ⓐ 620 2W metal-oxide (nonflammable) |
| R813 | 1-211-538-11 | Ⓐ 470 ¼W carbon (nonflammable) |
| R911, 912 | 1-211-632-11 | Ⓐ 560 ½W carbon (nonflammable) |
| R913 | 1-213-125-11 | Ⓐ 33 1W metal-oxide (nonflammable) |
| R914 | 1-207-687-11 | Ⓑ 150 5W wirewound (nonflammable) |
| R915, 916 | 1-211-518-11 | Ⓐ 68 ¼W carbon (nonflammable) |
| R921, 922 | 1-211-530-11 | Ⓐ 220 ¼W carbon (nonflammable) |
| R931, 932 | 1-211-515-11 | Ⓐ 51 ¼W carbon (nonflammable) |
| R939 | 1-202-541-11 | Ⓐ 47 ½W composition |
| R940 | 1-202-553-11 | Ⓐ 150 ½W composition |
| R1001 | 1-202-719-11 | 1 M ½W composition (USA, Canada models) |
| RT201 | 1-224-648-XX | Ⓑ 100 k adjustable |
| RT202~204 | 1-224-647-XX | Ⓑ 47 k adjustable |
| RT205 | 1-224-645-XX | Ⓑ 10 k adjustable |
| RV601, 651 | 1-224-809-00 | Ⓗ 250 k variable, VOLUME |
| RV602, 652 | 1-224-810-00 | Ⓓ 10 k variable, BALANCE |
| RV603, 653<br>RV604, 654 | 1-224-808-00 | Ⓔ 50 k variable, TONE (TREBLE, BASS) |

### SWITCHES

| Ref. No. | Part No. | Description |
|---|---|---|
| S1 | 1-516-950-00 | Ⓗ Rotary, FUNCTION |
| S2, 3 | 1-516-603-00 | Ⓕ Lever Slide, MONITOR, TAPE COPY |
| S4, 6<br>S14 ~ 16 | 1-516-949-00 | Ⓖ Pushbutton, 5-key; MONO, EXT ADPT, DOLBY FM, MULTI-PATH, FM MUTING |
| S5 | 1-516-685-00 | Ⓕ Lever Slide, MUTING |
| S7 | 1-516-952-00 | Ⓔ Rotary Slide, ACOUSTIC COMP |
| S8, 9, 12, 13 | 1-516-953-00 | Ⓕ Pushbutton, 4-key; FILTER |
| S10 | 1-516-951-00 | Ⓕ Rotary, SPEAKER |
| S11 | 1-516-628-00 | Ⓔ Pushbutton, POWER (AEP model) |
|  | 1-516-693-00 | Pushbutton, POWER (USA, Canada, PX models) |
| S17 | 1-516-954-00 | Ⓑ De-emphasis |

### FUSES

| Ref. No. | Part No. | Description |
|---|---|---|
| F1 | 1-532-422-00 | 6.3 A (USA, Canada, PX models) |
| F2 | 1-532-267-XX | 1.6 A (USA, Canada models) |
| F1, 2 | 1-532-237-00 | Ⓑ 3.15 AT (AEP, UK model) |
| F3, 4 | 1-532-325-00 | Ⓑ 6.3 AT (AEP, UK model) |
| F5 | 1-532-053-00 | Ⓑ 1.6 A (AEP, UK model) |

### JACKS

| Ref. No. | Part No. | Description |
|---|---|---|
| CNJ1 ~ 3 | 1-526-528-00 | Outlet, ac (USA, Canada, PX models) |
| CNJ1 | 1-509-546-00 | Ⓒ Connector, 3-p; AC IN (AEP, UK model) |
| CNJ4 | 1-507-454-00 | Ⓒ HEADPHONES |
| CNJ5 | 1-509-549-00 | Ⓑ Connector, REC/PB (AEP, UK model) |
| CNJ6 | 1-507-453-00 | Ⓒ AUX |
| J1 ~ 3<br>J16 ~ 18 | 1-507-430-XX | Ⓓ Phono, 6-p; INPUT |
| J4 ~ 7<br>J12 ~ 15 | 1-507-470-00 | Ⓒ Phono, 4-p; TAPE 2, REC OUT2, EXT ADPT |
| J8 ~ 11 | 1-507-471-00 | Ⓒ Phono, 4-p; TAPE1, REC OUT1 (AEP, UK model) |
|  | 1-507-470-00 | Phono, 4-p; TAPE1, REC OUT1 (USA, Canada models) |
| J19 | 1-507-411-00 | Ⓑ Phono, 1-p; FM DISCRI OUTPUT |

### MISCELLANEOUS

| Ref. No. | Part No. | Description |
|---|---|---|
| CP903 | 1-231-057-31 | Encapsulated Component (USA, Canada, PX models) |
|  | 1-508-690-00 | Ⓒ Plug, voltage selector (PX, AEP model) |
| ME1 | 1-520-237-00 | Ⓗ Meter, SIGNAL MULTIPATH |
| ME2 | 1-520-236-00 | Ⓗ Meter, FM TUNING |
| PL1 ~ 3 | 1-518-116-00 | Ⓑ Lamp, 11 V 360 mA; dial, meter |
| PL4, 5 | 1-518-169-XX | Ⓑ Lamp, 4.5 V 40 mA; STEREO, DOLBY FM |
| RY801 | 1-515-257-00 | Ⓗ Relay |

**Note: The components identified by shading are critical for safety. Replace only with part number specified.**

**Note:** The components identified by shading are critical for safety. Replace only with part number specified.

**Note:** The circled letters (Ⓐ to Ⓩ) are applicable for the European model only.

| *Ref. No.* | *Part No.* | *Description* |
|---|---|---|
| TM1 ~ 3 | 1-535-057-21 | Ⓔ Terminal Strip, SPEAKER |
| TM4 | 1-535-132-00 | Ⓑ Terminal, ground |
| TM5 | 1-536-469-00 | Ⓓ Terminal Strip, ANTENNA |
| | 1-508-690-00 | Ⓒ Plug, voltage selector (AEP, PX model) |

| *Ref. No.* | *Part No.* | *Description* |
|---|---|---|
| | 1-536-392-XX | Ⓑ Terminal Strip |
| | 1-534-992-XX | Cord, power (USA, Canada models) |
| | 1-534-993-00 | Cord, power (PX model) |

## ACCESSORIES AND PACKING MATERIALS

| *Part No.* | *Description* |
|---|---|
| X-4490-002-1 | Ⓑ Cloth Ass'y, polishing |
| 1-501-161-00 | Ⓓ Ribbon Antenna, fm |
| 1-506-113-00 | Ⓐ Plug, shorting |
| 1-534-819-00 | Ⓒ Cord, power (UK model) |
| 3-701-020-00 | Ⓐ Bag, plastic; instruction manual |
| 3-701-356-01 | Label, tack (Canada model) |
| 3-701-360-02 | Ⓐ Label, tack (AEP model) |
| 3-701-396-00 | Ⓐ Label, detachable cord (UK model) |
| 3-701-622-00 | Ⓐ Bag, plastic (UK model) |
| 3-701-657-01 | Label, tack (USA model) |
| 3-701-680-01 | Ⓐ Label, tack (UK model) |

| *Part No.* | *Description* |
|---|---|
| 3-780-939-12 | Ⓙ Manual, instruction (AEP, UK model) |
| 3-780-939-24 | Manual, instruction (US model) |
| 3-780-939-24<br>3-793-989-31 | Manual, instruction (Canadian model) |
| 3-793-520-82 | Ⓐ Card, guaranty (UK model) |
| 4-828-909-00 | Ⓑ Bag, plastic; unit |
| 4-845-128-00 | Ⓗ Carton (USA, Canada, AEP model) |
| 4-845-153-00 | Ⓗ Carton (UK model) |
| 4-845-131-00 | Ⓒ Cushion |
| 4-845-324-00 | Ⓒ Cushion (UK model) |

**Sony Corporation**

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**DOLBY FM**

# STR-6800SD

## FM STEREO/FM-AM RECEIVER

# SUPPLEMENT

File this supplement with service manual.

This supplement is applicable to UK model and new type of US, Canadian, AEP, PX model.

*US Model*
*Canadian Model*
*AEP Model*
*UK Model*
*PX Model*

No. 1
Sept., 1976

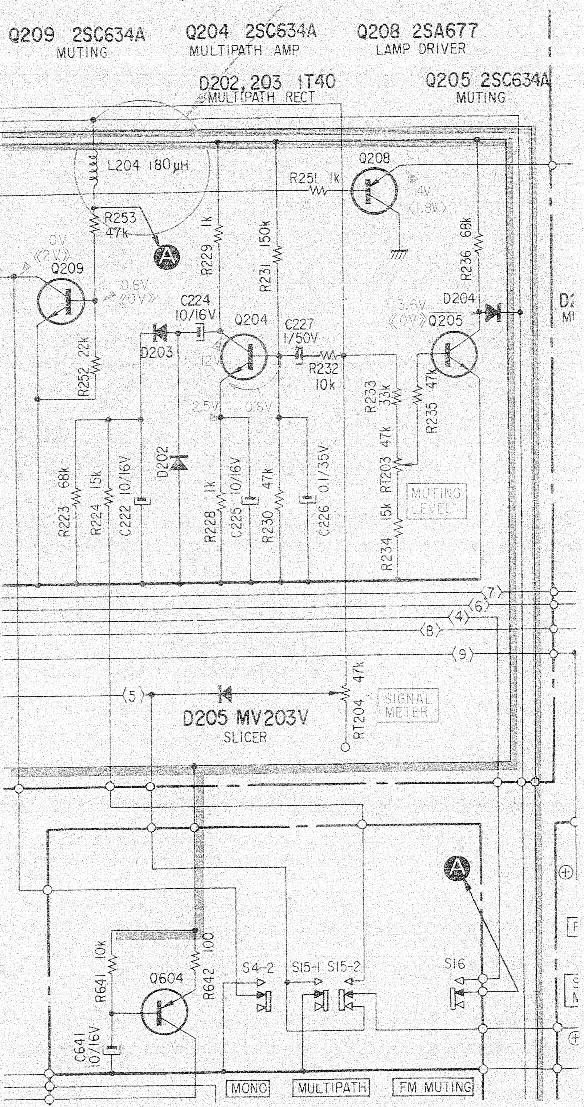
## 1. FORMER TYPE OF US, CANADIAN, AEP, PX MODEL

### 1) Schematic Diagram

– Front-End, Fm/Am section –

– P 19 –

Add: L204 180μH
(mounted outside of board)



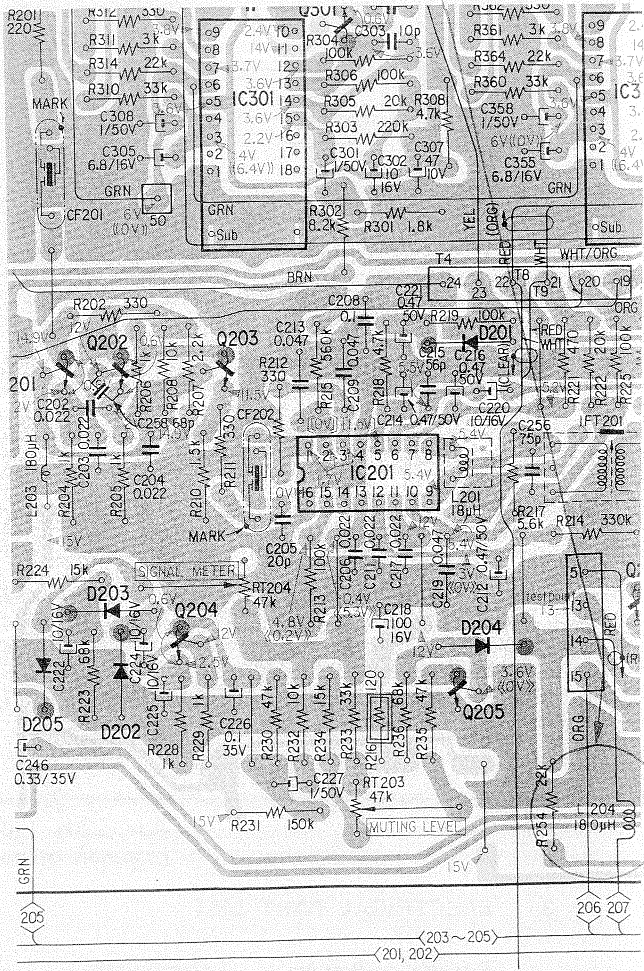
Q209 2SC634A MUTING
Q204 2SC634A MULTIPATH AMP
Q208 2SA677 LAMP DRIVER
D202, 203 1T40 MULTIPATH RECT
Q205 2SC634A MUTING
L204 180μH
R253 47k
A
R251 1k
Q208
14V
《1.8V》
R229 1k
R231 150k
R236 68k
0V
《2V》
Q209
0.6V
《0V》
C224 10/16V
Q204
C227 1/50V
3.6V
《0V》
Q205
D204
D203
R232 10k
R252 22k
12V
2.5V
0.6V
R233 33k
R235 47k
D202
R223 68k
R224 15k
C222 10/16V
R228 1k
C225 10/16V
R230 47k
C226 0.1/35V
RT203 47k
R234 15k
MUTING LEVEL
7
6
4
8
9
5
D205 MV203V SLICER
RT204 47k
SIGNAL METER
A
R641 10k
Q604
R642 100
C641 10/16V
S4-2
S15-1
S15-2
S16
MONO
MULTIPATH
FM MUTING

### 2) Mounting Diagram

– Front-End, Fm/Am Board –

– P 15 –

Add: L204 180μH
(mounted outside of board)



IC301
IC201
Q202
Q203
Q204
Q205
D201
D203
D204
D205
D202
MARK
CF201
CF202
SIGNAL METER
RT204 47k
MUTING LEVEL
RT203 47k
L204 180μH
R254 22k
IFT201
L201 18μH
T4
GRN
BRN
YEL
ORG
RED
WHT
WHT/ORG
C246 0.33/35V
R231 150k
205
206
207
203～205
201, 202

**Note**

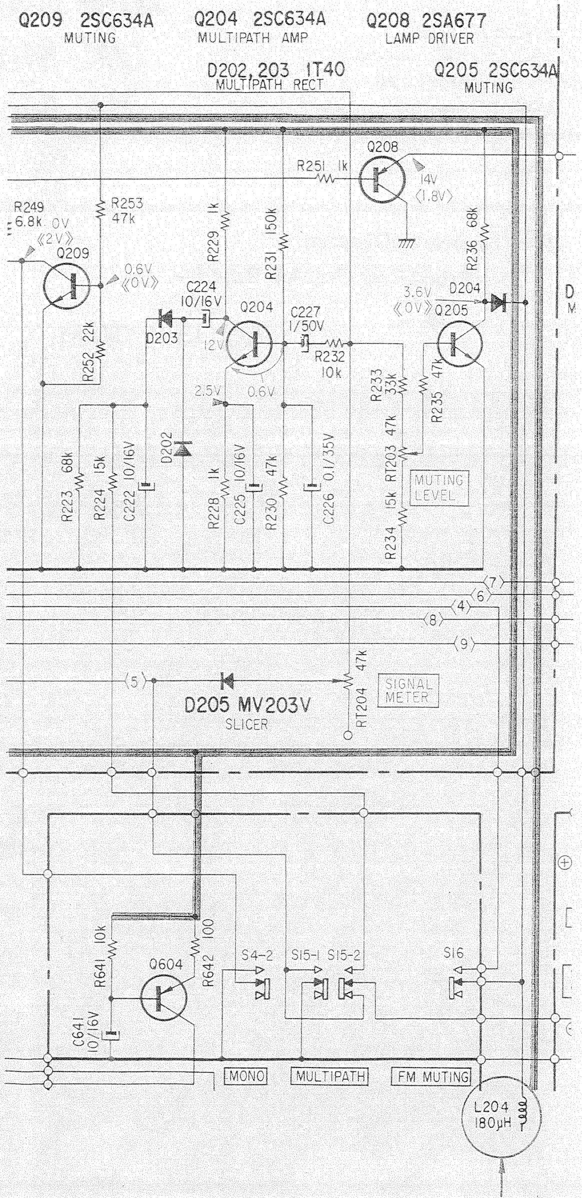
| | | |
|---|---|---|
| US model | new type: | serial No. 801,001 and later |
| | former type: | serial No. until 801,000 |
| AEP model | new type: | serial No. 500,201 and later |
| | former type: | serial No. until 500,200 |

**SONY**
**SERVICE MANUAL**

# STR-6800SD

## 2. UK MODEL AND NEW TYPE OF US, CANADIAN, AEP, PX MODEL

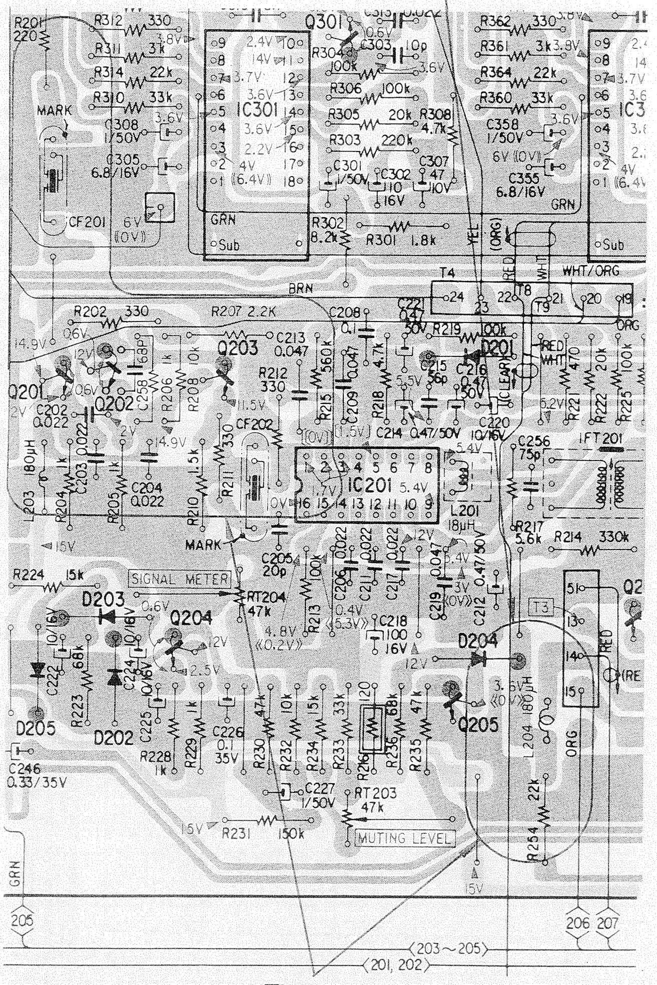
### 1) Schematic Diagram
– Front-End, Fm/Am section –
– P 19 –


Q209 2SC634A MUTING
Q204 2SC634A MULTIPATH AMP
Q208 2SA677 LAMP DRIVER
D202, 203 1T40 MULTIPATH RECT
Q205 2SC634A MUTING
R251 1k
R249 6.8k
R253 47k
R229 1k
R231 150k
R236 68k
C224 10/16V
C227 1/50V
R232 10k
D204
D203
R252 22k
R233 33k
R235 47k
RT203 47k
R234 15k
MUTING LEVEL
R223 68k
R224 15k
C222 10/16V
D202
R228 1k
C225 10/16V
R230 47k
C226 0.1/35V
D205 MV203V SLICER
RT204 47k
SIGNAL METER
Q604
R641 10k
R642 100
C641 10/16V
S4-2
S15-1 S15-2
S16
MONO
MULTIPATH
FM MUTING
L204 180μH

Add: L204 180 μH
(mounted on board)

### 2) Mounting Diagram
– Front-End, Fm/Am Board –
– P 15 –

Add: L204 180 μH
(mounted on board)


Q301
IC301
IC201
Q201
Q202
Q203
Q204
Q205
D201
D202
D203
D204
D205
CF201
CF202
T3
T4
IFT201
L201 18μH
L203 180μH
L204 180μH
RT203 47k
RT204 47k
MARK
SIGNAL METER
MUTING LEVEL
GRN
BRN
YEL
RED
WHT
WHT/ORG
ORG
205
206
207
203~205
201, 202

These patterns are changed.

## 3. ELECTRICAL PART LIST

| *Ref. No.* | *Part No.* | *Description* |
|---|---|---|
| L204 | 1-407-172-XX Ⓐ | 180 μH |

Sony Corporation

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